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OM protein - protein search, using sw model

Run on: September 19, 2002, 17:29:22 : Search time 23.54 Seconds
(without alignments)
321.662 Million cell updates/sec

Title: US-09-524-531C-13
Perfect score: 1633
Sequence: 1 MALSRRLRLRLVRLAPHPFL.....VNYIRTSSEGDFFRHKSSFVY 310

Scoring table:

BLOSUM62
Gapop 10.0, Gapext 0.5

Searched: 231628 seqs, 24425594 residues

1 number of hits satisfying chosen parameters: 231628

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database :

Issued_Patents_AA:*
1: /cgn2_6/ptodata/2/1aa/5A_COMB.pep:*
2: /cgn2_6/ptodata/2/1aa/5B_COMB.pep:*
3: /cgn2_6/ptodata/2/1aa/6A_COMB.pep:*
4: /cgn2_6/ptodata/2/1aa/6B_COMB.pep:*
5: /cgn2_6/ptodata/2/1aa/PTOUS_COMB.pep:*
6: /cgn2_6/ptodata/2/1aa/Backfile1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	415	25.4	299	4	US-09-188-930-331 Sequence 331, App
2	415	25.4	299	4	US-09-462-270-2 Sequence 2, Appl
3	403	24.7	299	4	US-09-188-930-189 Sequence 189, App
4	283	17.3	205	4	US-09-462-270-4 Sequence 4, Appl
5	242.5	14.8	319	1	US-08-597-495B-22 Sequence 22, Appl
6	240.5	14.7	318	4	US-09-068-051A-22 Sequence 22, Appl
7	240.5	14.7	318	4	US-09-068-051A-32 Sequence 32, Appl
8	197.5	12.1	387	4	US-09-175-928-2 Sequence 2, Appl
9	173.5	10.6	365	2	US-08-928-383B-2 Sequence 2, Appl
10	172.5	10.6	365	2	US-08-979-424-3 Sequence 3, Appl
11	172.5	10.6	365	4	US-09-272-496-2 Sequence 2, Appl
12	171.5	10.5	390	2	US-08-979-424-1 Sequence 1, Appl
13	166	10.2	1101	3	US-08-986-485-2 Sequence 2, Appl
14	160	9.8	869	1	US-08-374-834-16 Sequence 16, Appl
15	160	9.8	869	2	US-08-644-271-29 Sequence 29, Appl
16	156.5	9.6	365	4	US-08-928-383B-23 Sequence 23, Appl
17	156.5	9.6	365	4	US-08-928-383B-24 Sequence 24, Appl
18	151.5	9.3	365	4	US-08-928-383B-26 Sequence 26, Appl
19	150	9.2	1091	3	US-08-986-485-5 Sequence 5, Appl
20	150	9.2	1297	4	US-09-540-245A-17 Sequence 17, Appl
21	148	9.1	607	2	US-08-752-307B-12 Sequence 12, Appl
22	147.5	9.0	501	2	US-08-408-095-31 Sequence 31, Appl
23	147	9.0	95	4	US-08-928-383B-18 Sequence 18, Appl
24	147	9.0	1395	4	US-09-540-245A-15 Sequence 15, Appl
25	146.5	9.0	478	5	PCT-US95-08493-15 Sequence 15, Appl
26	146.5	9.0	860	5	PCT-US95-08493-19 Sequence 19, Appl
27	146.5	9.0	868	5	PCT-US95-08493-21 Sequence 21, Appl

28	144.5	8.8	698	2	US-08-602-725-36 Sequence 36, Appl
29	144.5	8.8	734	2	US-08-389-459A-17 Sequence 17, Appl
30	144.5	8.8	734	3	US-08-987-867A-17 Sequence 17, Appl
31	144.5	8.8	868	1	US-08-374-834-1 Sequence 1, Appl
32	144.5	8.8	868	2	US-08-644-271-1 Sequence 21, Appl
33	144.5	8.8	1651	4	US-09-540-245A-18 Sequence 18, Appl
34	142.5	8.7	1260	4	US-08-506-296B-21 Sequence 21, Appl
35	141	8.6	338	2	US-08-414-657D-60 Sequence 60, Appl
36	141	8.6	642	1	US-08-217-229-1 Sequence 1, Appl
37	141	8.6	1501	2	US-08-447-464-3 Sequence 3, Appl
38	141	8.6	1501	2	US-08-716-679-3 Sequence 3, Appl
39	139.5	8.5	612	2	US-08-752-307B-11 Sequence 11, Appl
40	139.5	8.5	983	4	US-09-412-554A-2 Sequence 2, Appl
41	139.5	8.5	1268	4	US-08-506-296B-28 Sequence 28, Appl
42	139.5	8.5	1447	4	US-09-041-886-25 Sequence 25, Appl
43	139.5	8.5	1447	5	PCT-US94-05277-2 Sequence 2, Appl
44	139	8.5	310	2	US-08-414-657D-45 Sequence 45, Appl
45	139	8.5	338	2	US-08-414-657D-42 Sequence 42, Appl

ALIGNMENTS

RESULT 1
US-09-188-930-331
Sequence 331, Application US/09188930A
Patent No. 6150502
GENERAL INFORMATION:
APPLICANT: Watson, James D.
APPLICANT: Strachan, Lorna
APPLICANT: Sleeman, Matthew
APPLICANT: Onrust, Rene
APPLICANT: Murison, James Greg
TITLE OF INVENTION: Compositions Isolated From Skin Cells
TITLE OF INVENTION: and Methods For Their Use
FILE REFERENCE: 11000.1011c1
CURRENT APPLICATION NUMBER: US/09/188, 930A
CURRENT FILING DATE: 1998-11-09
NUMBER OF SEQ ID NOS: 348
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 331
LENGTH: 299
TYPE: PRT
ORGANISM: Human
US-09-188-930-331

Query Match 25.4%, Score 415; DB 4; Length 299;
Best Local Similarity 33.8%, Pred. No. 8.8e-34;
Matches 100; Conservative 50; Mismatches 132; Indels 14; Gaps 6;

QY	18	FFLLLFPGCHIEAVNLKSSNRNPVHFEFSEVLSCTITHSOTSPRIEMKKIDGCTTY	77
DB	15	FTLLALSLGSLGTVHSSSEPVRIENNPKLSC--AYSGFSSPRVEMFDDGDTTRL	72
QY	78	VYFDKIKIGDLAGRTDVGKTSLRIMWTRSDATYRCEVALNDKREVDETIELIYOV	137
DB	73	VCYNKRTIASTEDRY-TFLPTGIFTKSVTRDGTGTYTC-MSEEGGNSGYEKVLLIV	130
QY	138	KVPYPCVCRIPAAVPGKATATLOCOSEGYPRPHYSWYNDVPLPTDSRPNFONSSFRV	197
DB	131	PPSKRTVWIPSSATIGNNAVILCSQDSSPSEYTWFDGIVMPTNPKSTAFSSSVYL	190
QY	198	NSEGTIVLFAVNHKDDSCQYICIASNDGAAARCEQO--DMEYYDLNIAIGTIGVLLIVL	256
DB	191	NPTGELVFDPDLSADTGEYCEARNGYGTPTMSNAVMEVVERNVGVVAVALVTLTL	250
QY	257	AVITMGICCAVRGCFISSKODGESYKSPGKHGDNVYRTS--EBGDFRHKSSFYI	310
DB	251	GILVFGIIFAVYSKRGHFDRTKGTSSKK-----VIYSPARSSEGEKOTSSFLV	299

RESULT 2

Patent No. 5712369
GENERAL INFORMATION:
APPLICANT: Old, Lloyd J.; Welt, Sydney; Ritter, Gerd;
APPLICANT: Simpson, Richard J.; Nice, Edouard; Moritz, R. L.;
APPLICANT: Calmel, B.; Ji, Hong; Burgess, Anthony W.;
APPLICANT: Heath, Joan K.; White, Sara J.; Johnstone, Cameron
TITLE OF INVENTION: Colon Cell And Colon Cancer Cell
TITLE OF INVENTION: Associated Nucleic Acid Molecules, Protein And Peptides
NUMBER OF SEQUENCES: 29
CORRESPONDENCE ADDRESS:
ADDRESSEE: Felfe & Lynch
STREET: 805 Third Avenue
CITY: New York City
STATE: New York
COUNTRY: USA
ZIP: 10022
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 inch, 360 kb storage
COMPUTER: IBM PS/2
OPERATING SYSTEM: PC-DOS
SOFTWARE: Wordperfect
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/597,495B
FILING DATE: 02-Feb-1996
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/511,876
FILING DATE: 04-Aug-1995
ATTORNEY/AGENT INFORMATION:
NAME: Hanson, No. 5712369man D.
REGISTRATION NUMBER: 30,946
REFERENCE/DOCKET NUMBER: LUD 5316.1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 688-9200
TELEFAX: (212) 838-3884
INFORMATION FOR SEQ ID NO: 22:
SEQUENCE CHARACTERISTICS:
LENGTH: 319 amino acids
TYPE: amino acid
TOPOLOGY: linear
US-08-597-495B-22

Query Match 14.8%; Score 242.5; DB 1; Length 319;
Best Local Similarity 25.7%; Pred. No. 2.2e-16;
Matches 80; Conservative 49; Mismatches 123; Indels 59; Gaps 12;
29 IEAVNLKSSNRPNVYHEFESVELSCIITHSQTS--DPRIEMKKIDGGTYYV---FDNK 83
19 VDAISVETPODVLRASQGSVTLPCYV-HTSTSSREGLIQWKLTLTHERVYIMFNSK 77
84 --IQGL-----ACRTDFGKTSLRINWTRSDSAIRCEVVALNDKREDEIT 131
78 NYIHGELYKNRYSISNNAOSD---ASITIDLTWADNGTECSVSLMSDLEGNTKSRV 133
132 ELIVQKPTVPYCRIIPAAPVCGKTATLQCESGEGYPRPHYSWRNDV-----PLPTDSRA 186
134 RLIVLVPSPKPEGIEGTIIIGNNIQLTQOSKEGSPTPQYSKRYNIILOEQPLADPAG 193
187 NRPFONSSFHVSEGTIVFNAVHKDDSGOYCIASNDAG-----AARCEGDMEVY 238
194 GP-----VSLKNISTDTSGYICTSNEEGTQFCNTTVAVRSPSMVALY 238
239 DLNAGIIGGLVLLVLAIVITMGICCAVRRCGFISSKODG-----ESTYSPKRGHGVNTI 294
239 ---VGIAGVVAALIIIGIT-IYCCCGKRGKDDNTEDKEDARNREAYEPEEQIRELSR 293
295 RTSEEGDFRHK 305
294 EREEDDYHOE 304

RESULT 6

US-09-068-051A-22
Sequence 22, Application US/09068051A
Patent No. 6291235
GENERAL INFORMATION:
APPLICANT: Old, Lloyd J.; Welt, Sydney; Ritter, Gerd;
APPLICANT: Simpson, Richard J.; Nice, Edouard; Moritz, R. L.;
APPLICANT: Calmel, B.; Ji, Hong; Burgess, Anthony W.;
APPLICANT: Heath, Joan K.; White, Sara J.; Johnstone, Cameron
TITLE OF INVENTION: Colon Cell And Colon Cancer Cell
TITLE OF INVENTION: Associated Nucleic Acid Molecules, Protein And Peptides
NUMBER OF SEQUENCES: 33
CORRESPONDENCE ADDRESS:
ADDRESSEE: Fulbright & Jaworski LLP
STREET: 666 Fifth Avenue
CITY: New York City
STATE: New York
COUNTRY: USA
ZIP: 10103
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 inch, 360 kb storage
COMPUTER: IBM PS/2
OPERATING SYSTEM: PC-DOS
SOFTWARE: Wordperfect
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/068,051A
FILING DATE: 10-Dec-1998
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/597,495
FILING DATE: 02-Feb-1996
APPLICATION NUMBER: 08/511,876
FILING DATE: 04-Aug-1995
ATTORNEY/AGENT INFORMATION:
NAME: Hanson, No. 6291235man D.
REGISTRATION NUMBER: 30,946
REFERENCE/DOCKET NUMBER: LUD 5316.2
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 318-3168
TELEFAX: (212) 752-5958
INFORMATION FOR SEQ ID NO: 22:
SEQUENCE CHARACTERISTICS:
LENGTH: 319 amino acids
TYPE: amino acid
TOPOLOGY: linear
SEQUENCE DESCRIPTION: SEQ ID NO: 22
US-09-068-051A-22

Query Match 14.8%; Score 242.5; DB 4; Length 319;
Best Local Similarity 25.7%; Pred. No. 2.2e-16;
Matches 80; Conservative 49; Mismatches 123; Indels 59; Gaps 12;
29 IEAVNLKSSNRPNVYHEFESVELSCIITHSQTS--DPRIEMKKIDGGTYYV---FDNK 83
19 VDAISVETPODVLRASQGSVTLPCYV-HTSTSSREGLIQWKLTLTHERVYIMFNSK 77
84 --IQGL-----ACRTDFGKTSLRINWTRSDSAIRCEVVALNDKREDEIT 131
78 NYIHGELYKNRYSISNNAOSD---ASITIDLTWADNGTECSVSLMSDLEGNTKSRV 133
132 ELIVQKPTVPYCRIIPAAPVCGKTATLQCESGEGYPRPHYSWRNDV-----PLPTDSRA 186
134 RLIVLVPSPKPEGIEGTIIIGNNIQLTQOSKEGSPTPQYSKRYNIILOEQPLADPAG 193
187 NRPFONSSFHVSEGTIVFNAVHKDDSGOYCIASNDAG-----AARCEGDMEVY 238
194 GP-----VSLKNISTDTSGYICTSNEEGTQFCNTTVAVRSPSMVALY 238
239 DLNAGIIGGLVLLVLAIVITMGICCAVRRCGFISSKODG-----ESTYSPKRGHGVNTI 294
239 ---VGIAGVVAALIIIGIT-IYCCCGKRGKDDNTEDKEDARNREAYEPEEQIRELSR 293
295 RTSEEGDFRHK 305

ZIP: 02109
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/928.383B
FILING DATE: 12-SEP-1997
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/026.100
FILING DATE: 13-SEP-1996
ATTORNEY/AGENT INFORMATION:
NAME: Mandagouras, Amy E.
REGISTRATION NUMBER: 36,207
REFERENCE/DOCKET NUMBER: DPN-020
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617)227-7400
TELEFAX: (617)742-4214
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 365 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-928-383B-2

Query Match 10.6%; Score 173.5; DB 4; Length 365;
Best Local Similarity 26.4%; Pred. No. 2.4e-09;
Matches 70; Conservative 37; Mismatches 113; Indels 45; Gaps 12;

QY 47 ESEVLSCTIITHS-QTSDP-RTEM-----KTIQDQOTTYVYFDNKKIQG----DLAGRTD 93
DB 35 ETAYLPCKFTTSPEDQGLDIEMLISPADNOKVD--QVILISGKIKYDDYYPDLKGRVH 92
QY 94 V-----FGKTSLRIMNVTYRSDSAIYRCEVVALNDRKEVDEITIELIYOVKRPVTPVCRI 147
DB 93 FTSNDLKSGDASINTNTQLSDIGTYQCKV---KKAPGVANKKIHLYLVKPSGARCYVD 149
QY 148 AAVPVGKTATLQCESEGYPRPHYSWYR--NDVPLPTDSRANPRFONSSFHVNSEGTGLV 205
DB 150 GSEELISGDFKICEPKESGLPLQYEMOKLSDQKMPSTSLA--EMTSSVISVKNAS----- 203
QY 206 FNAVHKDSCGYTCIASNDAGARCEGDMEYDNLNAGIIGVLY-VLIVLAVITMGIC 264
DB 204 -----SEYSGYTSCTVNRNRVGSDDCLRLNVVPPSNKAGLAGAIIIGTLALALIGLIIF 258
QY 265 CAVRRCFTISSKODGESYKSPGKHD 289
DB 259 CCRK-----KRREKEKEVHHND 276

RESULT 10
US-08-979-424-3
Sequence 3, Application US/08979424
Patent No. 5942606
GENERAL INFORMATION:
APPLICANT: Lal, Preeti
APPLICANT: Corley, Neil C.
TITLE OF INVENTION: VIRAL RECEPTOR PROTEIN
NUMBER OF SEQUENCES: 3
CORRESPONDENCE ADDRESS:
ADDRESSEE: Incyte Pharmaceuticals, Inc.
STREET: 3174 Porter Dr.
CITY: Palo Alto
STATE: CA
COUNTRY: USA
ZIP: 94304
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible

OPERATING SYSTEM: DOS
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/979,424
FILING DATE: Filed Herewith
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Billings, Lucy J
REGISTRATION NUMBER: 36,749
REFERENCE/DOCKET NUMBER: PF-0405 US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 650-855-0555
TELEFAX: 650-845-4166
TELEX:
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 365 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
IMMEDIATE SOURCE:
LIBRARY: Genbank
CLONE: 1946351
US-08-979-424-3

Query Match 10.6%; Score 172.5; DB 2; Length 365;
Best Local Similarity 25.9%; Pred. No. 3.1e-09;
Matches 68; Conservative 38; Mismatches 116; Indels 41; Gaps 11;

QY 47 ESEVLSCTIITHS-QTSDP-RTEM-----KTIQDQOTTYVYFDNKKIQG----DLAGRTD 93
DB 35 ETAYLPCKFTTSPEDQGLDIEMLISPADNOKVD--QVILISGKIKYDDYYPDLKGRVH 92
QY 94 V-----FGKTSLRIMNVTYRSDSAIYRCEVVALNDRKEVDEITIELIYOVKRPVTPVCRI 147
DB 93 FTSNDLKSGDASINTNTQLSDIGTYQCKV---KKAPGVANKKIHLYLVKPSGARCYVD 149
QY 148 AAVPVGKTATLQCESEGYPRPHYSWYRNDVPLPTDSRANPRFONSSFHVNSEGTGLVFN 207
DB 150 GSEELISGDFKICEPKESGLPLQYEMOK-----LSDQKMP-----TSLAEKMTSSVISVK 200
QY 208 AVHKDSCGYTCIASNDAGARCEGDMEYDNLNAGIIGVLY-VLIVLAVITMGICCA 266
DB 201 NASSSEYSGYTSCTVNRNRVGSDDCLRLNVVPPSNKAGLAGAIIIGTLALALIGLIIFCC 260
QY 267 YRRCFTISSKODGESYKSPGKHD 289
DB 261 RK-----KRREKEKEVHHND 276

RESULT 11
US-09-272-496-2
Sequence 2, Application US/09272496
Patent No. 6245966
GENERAL INFORMATION:
APPLICANT: Degregori, James
TITLE OF INVENTION: Adenoviral mediated gene transfer into lymphocytes
FILE REFERENCE: 90-98
CURRENT APPLICATION NUMBER: US/09/272.496
CURRENT FILING DATE: 1999-03-19
EARLIER APPLICATION NUMBER: US 60/092782
EARLIER FILING DATE: 1998-07-14
NUMBER OF SEQ ID NOS: 7
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO: 2
LENGTH: 365
TYPE: PRT
ORGANISM: Homo sapiens
US-09-272-496-2

TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-986-485-2

Query Match 10.2%; Score 166; DB 3; Length 1101;
Best Local Similarity 22.8%; Pred. No. 7e-08;
Matches 66; Conservative 44; Mismatches 101; Indels 78; Gaps 16;

QY 51 LSCITHTSOTSPRIEMKRIQDCQTYVYFDNKGIDLAGR-----TDVFGTSLR 101
DB 626 LECATG--PMPOLAMQK--DGTDFP-----AARERMHMPDDDFEFTDYK 671
QY 102 INNVRSDAISARCEVVALNDRKVEDEITELIYQKPYTPCRIP---AAPVNGTATL 158
DB 672 T-----DDGVTSC--TAONSAGSISANATLVLE---TPSLVLEDRVSVSGTVAL 720
QY 159 QCOSEGEYPRPHYSWRNDVPLPTDSRANPRFONSSFHVNSEGTGLVFNAVHKDSDGOY 218
DB 721 QC-KATGNPRLTWMKGDRLSLTER-----HHLTPDQQLLVQNVVAEDAGRT 770
219 CLASNDAGARCEGDMYDNLNIGITG-----GYLVLLIYLAVI---TMGICAY 267
DB 771 CEMSNLTGTERASQ-----LSVLPAACRRDGTGTGIFTIAVSSIVLTSLVWCITY 824
QY 268 RRGCFISSKODESYKSPGKHGV-----NYIRTSSEGDPRHKSFEVI 310
DB 825 Q-----TRKSEYSVTMTDETVPVDPVSYL--SSQGTLSDRQETV 865

RESULT 14

US-08-374-834-16
Sequence 16, Application US/08374834
Patent No. 5656473

GENERAL INFORMATION:

APPLICANT: Valenzuela, et al.
TITLE OF INVENTION: NOVEL TYROSINE KINASE RECEPTOR
NUMBER OF SEQUENCES: 17
CORRESPONDENCE ADDRESS:
ADDRESSEE: Regeneron Pharmaceuticals, Inc.
STREET: 777 Old Saw Mill River Road
CITY: Tarrytown
STATE: New York
COUNTRY: USA
ZIP: 10591

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/374,834
FILING DATE: 19-JAN-1995
CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/095,658
FILING DATE: 21-JUL-1993
ATTORNEY/AGENT INFORMATION:
NAME: Cobert, Robert J.
REGISTRATION NUMBER: 36,108
REFERENCE/DOCKET NUMBER: REG 190A

TELECOMMUNICATION INFORMATION:

TELEPHONE: (914) 345-7400
TELEFAX: (914) 345-7721

INFORMATION FOR SEQ ID NO: 16:

SEQUENCE CHARACTERISTICS:
LENGTH: 869 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: unknown

MOLECULE TYPE: protein
US-08-374-834-16

Query Match 9.8%; Score 160; DB 1; Length 869;
Best Local Similarity 28.8%; Pred. No. 2e-07;
Matches 70; Conservative 23; Mismatches 82; Indels 68; Gaps 11;

QY 28 MIEAVNLKSSNRNPVHVESEVLS-----CIITHSOTSD----- 62
DB 1 MELVNI-----PLVHILTLVAFSGTEKLPRAPVITTLLEYDALVEEVATFMCAVESY 54
QY 63 --PRIEMKR---IDGQTYVYFDNKGIDLAGRTDVEFGKTSLRIMWTRSDSAIYRCE 116
DB 55 POEISWTRNKKLIKLFDRYSIREN---GQL-----LTLISVEDSDDGIIYC- 99
QY 117 VALNDRKVEDEITELIYQKPYTPVCRIPAAVY--GKTATIQCOSEGEYPRPHYSW 174
DB 100 -TANNVGAVESCGALQYKMP--KITRPPINVKIIEGLKAVLPC--TTMGNKPSPSVMI 155
QY 175 RNDVPLPTDSRANPRFONSSFHVNSEGTGLVFNAVHKDSDGOYCIASNDAGARCEGOD 234
DB 156 KGDSPLRENSRI-----AVLESGSLRIHNVQKEDAGQRCVAKNSLGTAVSKYVK 205
QY 235 MEY 237
DB 206 LEV 208

RESULT 15

US-08-644-271-29
Sequence 29, Application US/08644271
Patent No. 5814478

GENERAL INFORMATION:

APPLICANT: Valenzuela, et al.
TITLE OF INVENTION: NOVEL TYROSINE KINASE RECEPTORS
NUMBER OF SEQUENCES: 32
CORRESPONDENCE ADDRESS:
ADDRESSEE: Regeneron Pharmaceuticals, Inc.
STREET: 777 Old Saw Mill Road
CITY: Tarrytown
STATE: NY
COUNTRY: USA
ZIP: 10591

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FASTSEQ Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/644,271
FILING DATE: 10-MAY-1996
CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: USSN 60/008,657
FILING DATE: 15-DEC-1995
ATTORNEY/AGENT INFORMATION:
NAME: Cobert, Robert J.
REGISTRATION NUMBER: 36,108
REFERENCE/DOCKET NUMBER: REG 195A

TELECOMMUNICATION INFORMATION:

TELEPHONE: 914-345-7400
TELEFAX: 914-345-7721

INFORMATION FOR SEQ ID NO: 29:

SEQUENCE CHARACTERISTICS:
LENGTH: 869 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: unknown

MOLECULE TYPE: protein
US-08-644-271-29

Query Match 9.8%; Score 160; DB 2; Length 869;

Best Local Similarity 28.8%; Pred. No. 2e-07;
Matches 70; Conservative 23; Mismatches 82; Indels 68; Gaps 11;

```

OY      28 MIEAVNLKSSNRNVVVEEFSEVELS-----CITHSQSD----- 62
Db      1 MRELVTI-----PLVHLITLVAESGCEKLPKAVITTPLETYDALVEEATVPMCAVESY 54

OY      63 --PIEMWK-----IQDQOTTVYVFNDKIQGDLAGRIVDFGKTSLRIMWNTRSDSAIYRCE 116
Db      55 PPEISWTMRNKLILKLPDTRTSIREN---GOL-----LTLISVEDSDDGICYC- 99

OY      117 VVALNDREKVEDEITELIVQYKPVTPYCRJPAAPVY--GKTATLCOESGCEGRPHYSWY 174
Db      100 -TANNGGAVESGCAQVKKRP--KTRPPINVKIIEGLKAVLPC-TTGNKRPYSVSMI 155

OY      175 RNDVPLEPTDSRANRPFONSSFHVNSSETGLTVFNAVHKDDSGOYYCIASNDAGAARCEGOD 234
Db      156 KGDSPLRENSRI-----AVLESGSLRIHVNGKEDAGQYRCVAKKNSLGTAYSKVYK 205

235 MEV 237
      : : :
206 LEV 208

```

Search completed: September 19, 2002, 17:33:15
Job time: 233 sec

Db 292 KQTSSEFLV 299

RESULT 2

US-09-462-270-2

Sequence 2, Application US/09462270

Patent No. 6358707

GENERAL INFORMATION:

APPLICANT: Smlthkline Beecham Corporation

TITLE OF INVENTION: Human F11 Antigen: A Cell Surface

FILE REFERENCE: Receptor Involved in Platelet Aggregation

CURRENT APPLICATION NUMBER: US/09/462,270

CURRENT FILING DATE: 2000-01-05

PRIOR APPLICATION NUMBER: 60/052,186

PRIOR FILING DATE: 1997-07-10

NUMBER OF SEQ ID NOS: 4

SOFTWARE: FastSeq for Windows Version 3.0

SEQ ID NO 2

LENGTH: 299

TYPE: PRT

ORGANISM: HOMO SAPIENS

US-09-462-270-2

Query Match

Best Local Similarity 32.8%; Pred. No. 2.5e-35;

Matches 101; Conservative 48; Mismatches 137; Indels 22; Gaps 7;

QY 8 RLRLCARLPDFELLRLRGLIGAVNLKSSNRTPVVOEFESVELSCITTSQTSDDPRIEM 67

Db 9 RKLCLL----FILAILCSALGSVTVHSSPEVRIPENNPKLSCLAV--SGFSSPVEW 62

QY 68 KKIODEQTVVFFDNKIQGLAGRAELIGKTSKIMVTRRDSALYCEVVARNDREID 127

Db 63 KFDGDTTLVLCYNNKITASIEDRVTFI-PTGIFKSVTRREDTGTTC-MVSEEGNSYG 120

QY 128 EIVIELTVQKPYTPVGRVRAVPGKMATLHCOESBGHPRPHYSWYRNDVPLPTDSRAN 187

Db 121 EVKVKLTVLPSPKPTVINISSATIGNRAVLTCEODGSPSEYTWKDIWPTNPKST 180

QY 188 PRENSSEFHLNSETGLVFTAVHKDSGOYCIASNDGASRCEQ-EMEYVDLNIIGII 246

Db 181 RATSNSSTVLPPTGELVFDPLSADTGEYSCEARNIGYTPMISNAVMEAVEKRVGVIV 240

QY 247 GGVLVAVLALITLIGICCAVRRCYFTNNKODGES---YKNGPKPGGVNIRIREDGDF 302

Db 241 AAVLVTVLILGLIVGIMFAVSRGHFDRTRKKGTSKKVIVSQPS-----ARSEGEF 291

QY 303 RHKSSEFV 310

Db 292 KQTSSEFLV 299

RESULT 3

US-09-188-930-189

Sequence 189, Application US/09188930A

Patent No. 6150502

GENERAL INFORMATION:

APPLICANT: Watson, James D.

APPLICANT: Strachan, Lorna

APPLICANT: Sleeman, Matthew

APPLICANT: Onrust, Rene

APPLICANT: Murison, James Greg

TITLE OF INVENTION: Compositions and Methods for their Use

FILE REFERENCE: 11000.101cl

CURRENT APPLICATION NUMBER: US/09/188,930A

CURRENT FILING DATE: 1998-11-09

NUMBER OF SEQ ID NOS: 348

SOFTWARE: FastSeq for Windows Version 3.0

SEQ ID NO 189

LENGTH: 299

Query Match

Best Local Similarity 32.8%; Pred. No. 2.5e-35;

Matches 101; Conservative 48; Mismatches 137; Indels 22; Gaps 7;

QY 8 RLRLCARLPDFELLRLRGLIGAVNLKSSNRTPVVOEFESVELSCITTSQTSDDPRIEM 67

Db 9 RKLCLL----FILAILCSALGSVTVHSSPEVRIPENNPKLSCLAV--SGFSSPVEW 62

QY 68 KKIODEQTVVFFDNKIQGLAGRAELIGKTSKIMVTRRDSALYCEVVARNDREID 127

Db 63 KFDGDTTLVLCYNNKITASIEDRVTFI-PTGIFKSVTRREDTGTTC-MVSEEGNSYG 120

TYPE: PRT
ORGANISM: Human
FEATURE:
NAME/KEY: UNSURE
LOCATION: (247)...(247)
NAME/KEY: UNSURE
LOCATION: (289)...(289)
US-09-188-930-189

Query Match

Best Local Similarity 32.1%; Pred. No. 4.2e-34;

Matches 99; Conservative 48; Mismatches 139; Indels 22; Gaps 7;

QY 8 RLRLCARLPDFELLRLRGLIGAVNLKSSNRTPVVOEFESVELSCITTSQTSDDPRIEM 67

Db 9 RKLCLL----FILAILCSALGSVTVHSSPEVRIPENNPKLSCLAV--SGFSSPVEW 62

QY 68 KKIODEQTVVFFDNKIQGLAGRAELIGKTSKIMVTRRDSALYCEVVARNDREID 127

Db 63 KFDGDTTLVLCYNNKITASIEDRVTFI-PTGIFKSVTRREDTGTTC-MVSEEGNSYG 120

QY 128 EIVIELTVQKPYTPVGRVRAVPGKMATLHCOESBGHPRPHYSWYRNDVPLPTDSRAN 187

Db 121 EVKVKLTVLPSPKPTVINISSATIGNRAVLTCEODGSPSEYTWKDIWPTNPKST 180

QY 188 PRENSSEFHLNSETGLVFTAVHKDSGOYCIASNDGASRCEQ-EMEYVDLNIIGII 246

Db 181 RATSNSSTVLPPTGELVFDPLSADTGEYSCEARNIGYTPMISNAVMEAVEKRVGVIV 240

QY 247 GGVLVAVLALITLIGICCAVRRCYFTNNKODGES---YKNGPKPGGVNIRIREDGDF 302

Db 241 AAVLVTVLILGLIVGIMFAVSRGHFDRTRKKGTSKKVIVSQPS-----ARSEGEF 291

QY 303 RHKSSEFV 310

Db 292 KQTSSEFLV 299

RESULT 4

US-09-462-270-4

Sequence 4, Application US/09462270

Patent No. 6358707

GENERAL INFORMATION:

APPLICANT: Smlthkline Beecham Corporation

TITLE OF INVENTION: Human F11 Antigen: A Cell Surface

FILE REFERENCE: Receptor Involved in Platelet Aggregation

CURRENT APPLICATION NUMBER: US/09/462,270

CURRENT FILING DATE: 2000-01-05

PRIOR APPLICATION NUMBER: 60/052,186

PRIOR FILING DATE: 1997-07-10

NUMBER OF SEQ ID NOS: 4

SOFTWARE: FastSeq for Windows Version 3.0

SEQ ID NO 4

LENGTH: 205

TYPE: PRT

ORGANISM: HOMO SAPIENS

US-09-462-270-4

Query Match

Best Local Similarity 17.6%; Score 288; DB 4; Length 205;

Matches 67; Conservative 32; Mismatches 92; Indels 8; Gaps 4;

QY 8 RLRLCARLPDFELLRLRGLIGAVNLKSSNRTPVVOEFESVELSCITTSQTSDDPRIEM 67

Db 9 RKLCLL----FILAILCSALGSVTVHSSPEVRIPENNPKLSCLAV--SGFSSPVEW 62

QY 68 KKIODEQTVVFFDNKIQGLAGRAELIGKTSKIMVTRRDSALYCEVVARNDREID 127

Db 63 KFDGDTTLVLCYNNKITASIEDRVTFI-PTGIFKSVTRREDTGTTC-MVSEEGNSYG 120

US-08-752-307B-11
Sequence 11, Application US/08752307B
Patent No. 5952171
GENERAL INFORMATION:
APPLICANT: McCarthy, Sean A.
APPLICANT: Gearling, David P.
APPLICANT: Levinson, Douglas A.
TITLE OF INVENTION: METHOD FOR IDENTIFYING GENES
TITLE OF INVENTION: ENCODING NOVEL SECRETED OR MEMBRANE-ASSOCIATED PROTEIN
NUMBER OF SEQUENCES: 14
CORRESPONDENCE ADDRESS:
ADDRESSEE: Fish & Richardson, P.C.
STREET: 225 Franklin Street
CITY: Boston
STATE: MA
COUNTRY: US
ZIP: 02110-2804
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows95
SOFTWARE: FASTSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/752,307B
FILING DATE: 19-NOV-1996
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:

RESULT 15
 US-08-506-296B-28
 ; Sequence 28, Application US/08506296B
 ; Patent No. 6313265
 ; GENERAL INFORMATION:
 ; APPLICANT: Phillips, Greg
 ; APPLICANT: Cunningham, Bruce A.
 ; APPLICANT: Crossin, Kathryn L.
 ; TITLE OF INVENTION: NEURITE OUTGROWTH-PROMOTING POLYPEPTIDES
 ; TITLE OF INVENTION: CONTAINING FIBRONECTIN TYPE III REPEATS AND METHODS OF USE
 ; NUMBER OF SEQUENCES: 77
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESS: The Scripps Research Institute
 ; STREET: 10550 NO. 6313265th Torrey Pines Road, TPC-8
 ; CITY: La Jolla
 ; STATE: California
 ; COUNTRY: U.S.
 ; ZIP: 92037
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC COMPATIBLE
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patentin Release #1.0, Version #1.25
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/506,296B
 ; FILING DATE: 24-JUL-1995
 ; CLASSIFICATION: 514
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Fitting, Thomas
 ; REGISTRATION NUMBER: 34,163
 ; REFERENCE/DOCKET NUMBER: TSRI 488.0
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (619) 554-2937
 ; TELEFAX: (619) 554-6312
 ; INFORMATION FOR SEQ ID NO: 28:
 ; SEQUENCE CHARACTERISTICS:

LENGTH: 1268 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-506-296B-28

Query Match 9.5%; Score 155.5; DB 4; Length 1268;
Best Local Similarity 30.2%; Pred. No. 6.2e-07;
Matches 60; Conservative 21; Mismatches 75; Indels 43; Gaps 10;

QY 40 TPVQEESEYE-----LSCIITDSQTSDPRIEMKKIODE-QTTYVFQDKKIGDLAGR 91
Db 248 TPWGSTSNKVELRGNNVLLLECIAAGLPT--PVIRMIKEGGELPANRTFFEN----- 296
QY 92 AEILGKTSLKIMNVTNRDSALYRCEVVARNDKREIDETIVETLYQVKKPVTVPVCRVPKAVP 151
Db 297 ----FKTKLIIDYSEADSGNYKC--TARNILGSTHH-VISVYKAAPIWITAPRNLYLS 349
152 VGRKATLHCQESRGHPHPHYSWYRNDVPL---PTD-SRANPRFRNSSFHLNSETGLVFT 207
Db 350 PGEDGTLICR-ANGNPKPSISMLTNGVPIAIAPEDPSR-----KVDGDTIIFS 396
QY 208 AVHKDSGQYICIASNDAG 226
Db 397 AVOERSSAVYQCNAASNEYG 415

Search completed: September 19, 2002, 17:33:16
Job time: 234 sec

GenCore version 4.5
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OM protein - protein search, using sw model

Run on: September 19, 2002, 17:40:17 ; Search time 30.81 Seconds
(without alignments)
966.819 Million cell updates/sec

Title: US-09-524-531c-15
Perfect score: 310
Sequence: 1 MALRRPRLRLCARLPDFLL.....VNYIRDEGDFRHKSSFYI 310

Scoring table: OLIGO
Gapop 60.0 , Gapext 60.0

Searched: 283138 seqs, 96089334 residues

Total number of hits satisfying chosen parameters: 283138

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Listing first 75 summaries

Database : PIR_71:.*
1: plr1:.*
2: plr2:.*
3: plr3:.*
4: plr4:.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	8	2.6	290	2	168750 MHC class I lympho
2	8	2.6	335	2	A86406 probable RING zinc
3	8	2.6	342	1	HLHUC4 MHC class I histoc
4	8	2.6	348	2	E82933 type I restriction
5	8	2.6	366	2	JH0546 class I histocompa
6	8	2.6	366	2	JH0547 class I histocompa
7	8	2.6	366	2	JH0545 class I histocompa
8	8	2.6	366	2	I37078 HLA-C alpha chain
9	8	2.6	492	2	A81013 probable membrane
10	8	2.6	784	2	A86676 carbon starvation
11	8	2.3	77	2	JC5645 lymphotoxin beta -
12	7	2.3	113	2	AH1748 lymphotoxin beta -
13	7	2.3	171	2	G70548 hypothetical prote
14	7	2.3	172	2	T08548 hypothetical prote
15	7	2.3	173	2	T01282 hypothetical prote
16	7	2.3	173	2	B90241 hypothetical prote
17	7	2.3	173	2	T25730 hypothetical prote
18	7	2.3	177	2	E85833 partial probable s
19	7	2.3	177	2	B90988 partial probable s
20	7	2.3	208	2	T03627 GTP-binding protei
21	7	2.3	208	2	T01568 GTP-binding protei
22	7	2.3	211	2	E86888 hypothetical prote
23	7	2.3	214	2	T47268 phosphatidylserine
24	7	2.3	217	2	T30446 occlusion-derived
25	7	2.3	242	2	A84315 cobalt transport p
26	7	2.3	244	2	A46066 lymphotoxin beta -
27	7	2.3	253	2	T35883 transcription regu
28	7	2.3	280	2	PH0269 epidermal autoanti
29	7	2.3	294	2	H84023 phosphate ABC tran

30	7	2.3	297	2	A81002 conserved hypothet
31	7	2.3	297	2	AB3037 hypothetical prote
32	7	2.3	299	2	A98249 nitrate transport
33	7	2.3	300	2	A82017 probable lipoprote
34	7	2.3	302	2	B70471 heat shock protei
35	7	2.3	306	2	I49139 lymphotoxin-beta -
36	7	2.3	314	2	G98193 sugar transport sy
37	7	2.3	314	2	AG3093 hypothetical prote
38	7	2.3	324	2	T27302 hypothetical prote
39	7	2.3	333	2	I38974 G protein-coupled
40	7	2.3	343	2	H95879 probable sugar ABC
41	7	2.3	346	2	D75303 conserved hypothet
42	7	2.3	362	2	G75614 GDEF family prote
43	7	2.3	375	2	T46378 hypothetical prote
44	7	2.3	376	2	F71815 hypothetical prote
45	7	2.3	380	2	E88421 protein R74.2 (imp
46	7	2.3	382	2	T24963 hypothetical prote
47	7	2.3	391	2	E72539 poliovirus recepto
48	7	2.3	392	1	RWHUPD poliovirus recepto
49	7	2.3	392	2	B44194 poliovirus recepto
50	7	2.3	400	2	T24258 hypothetical prote
51	7	2.3	402	2	T04348 endosperm specific
52	7	2.3	402	2	G83367 hypothetical prote
53	7	2.3	403	1	G90955 tyrosine-specific
54	7	2.3	403	2	D85804 tyrosine-specific
55	7	2.3	403	2	D85804 poliovirus recepto
56	7	2.3	417	1	RWHUPA poliovirus recepto
57	7	2.3	417	2	A44194 poliovirus recepto
58	7	2.3	420	2	T36532 probable membrane
59	7	2.3	421	2	H86217 protein T2767.16 l
60	7	2.3	431	2	D81282 probable efflux pr
61	7	2.3	437	2	AE1849 proton/sodium-glut
62	7	2.3	454	2	JC4616 apyrase (EC 3.6.1.
63	7	2.3	463	2	D84065 glucose-1-phosphat
64	7	2.3	481	2	S69808 lincomycin resista
65	7	2.3	490	2	A96556 probable tRNA-guan
66	7	2.3	491	1	O4R8PC cytochrome P450 2B
67	7	2.3	491	2	S31277 cytochrome P450 2B
68	7	2.3	491	2	S31278 cytochrome P450 2B
69	7	2.3	491	2	S35666 cytochrome P450 2B
70	7	2.3	503	2	E83490 probable MFS trans
71	7	2.3	504	2	E87628 hypothetical prote
72	7	2.3	523	2	B95922 hypothetical nucle
73	7	2.3	524	2	A31318 glucose transporte
74	7	2.3	530	2	C95268 probable ABC trans
75	7	2.3	558	2	B87098 conserved hypothet

ALIGNMENTS

RESULT 1
MHC class I lymphocyte antigen - human (fragment)
C:Species: Homo sapiens (man)
C:Date: 07-Jun-1996 #sequence_revision 07-Jun-1996 #text_change 21-Jan-2000
C:Accession: 168750
R:Polhla, H.; Kuon, W.; Tabaczewski, P.; Doerner, C.; Weiss, E.H.
Immunogenetics 29, 297-307, 1989
A:Title: Allelic variation in HLA-B and HLA-C sequences and the evolution of the HLA-
A:Reference number: I54457; MUID:89233295
A:Accession: 168750
A:Status: preliminary; translated from GB/EMBL/DBJ
A:Molecule type: mRNA
A:Residues: 1-290 <RES>
A:Cross-references: GB:M28207; NID:9576478; PIDN:AAA53259.1; PID:9576479
C:Superfamily: class I histocompatibility antigen; immunoglobulin homology
F:144-209/Domain: immunoglobulin homology <IMM>

Query Match 2.6%; Score 8; DB 2; Length 290;
Best Local Similarity 100.0%; Pred. No. 5.8;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Caps 0;

QY 249 VLVLAVL 256
|||||
Db 241 VLVLAVL 248

RESULT 2

A86406
probable RING zinc finger protein [Imported] - Arabidopsis thaliana
C:Species: Arabidopsis thaliana (mouse-ear cress)
C:Date: 02-Mar-2001 #sequence_revision 02-Mar-2001 #text_change 31-Mar-2001
C:Accession: A86406
R:Theologis, A.; Ecker, J.R.; Palm, C.J.; Federspiel, N.A.; Kaul, S.; White, O.; Alonso, C.; Chiu, C.W.; Chung, M.K.; Conn, L.; Conway, A.B.; Conway, A.R.; Creasy, T.H.; Dewar, K.; Hansen, N.F.; Hughes, B.; Huizar, L.
Nature 408, 816-820, 2000
A:Authors: Hunter, J.L.; Jenkins, J.; Johnson-Hopson, C.; Khan, S.; Khaykin, E.; Kim, C.; Li, J.H.; Li, Y.; Lin, X.; Liu, S.X.; Liu, Z.A.; Luros, J.S.; Maitl, R.; Marzall, R.; Rizzo, M.; Rooney, T.; Rowley, D.; Sakano, H.
Chors: Salzberg, S.L.; Schwartz, J.R.; Shinn, P.; Southwick, A.M.; Sun, H.; Tallon, M.; Wu, D.; Yu, G.; Fraser, C.M.; Venter, J.C.; Davis, R.W.
A:Title: Sequence and analysis of chromosome 1 of the plant Arabidopsis.
A:Reference number: A86141; MUID:21016719
A:Accession: A86406
A:Status: preliminary
A:Molecule type: DNA
A:Residues: 1-336 <STO>
A:Cross-references: GB:AE005172; NID:g11024872; PIDN:AAQ26956.1; GSPDB:GN00141
C:Genetics:
A:Map position: 1

Query Match 2.6%; Score 8; DB 2; Length 336;
Best Local Similarity 100.0%; Pred. No. 6.6;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 250 LVLVLAVL 257
|||||
Db 28 LVLVLAVL 35

RESULT 3

HLHUC4
MHC class I histocompatibility antigen HLA-C4 alpha chain - human
C:Species: Homo sapiens (man)
C:Date: 31-Dec-1988 #sequence_revision 31-Dec-1988 #text_change 22-Jun-1999
C:Accession: A24512
R:Davidson, W.F.; Kress, M.; Khoury, G.; Jay, G.
Mol. Cell. Chem. 260, 13414-13423, 1985
A:Title: Comparison of HLA class I gene sequences. Derivation of locus-specific oligonucleotide.
A:Reference number: A92500; MUID:86033791
A:Accession: A24512
A:Molecule type: DNA
A:Residues: 1-342 <DAV>
A:Cross-references: GB:M11886; NID:g184173; PIDN:AAA52665.1; PID:g386777
C:Genetics:
A:Gene: GDB:HLA-C
A:Gene: GDB:HLA-C
A:Cross-references: GDB:119311; OMIM:142840
A:Map position: 6p21.3-6p21.3
C:Superfamily: class I histocompatibility antigen; immunoglobulin homology
C:Keywords: glycoprotein; heterodimer; transmembrane protein; transplantation antigen
F:196-261/Domain: immunoglobulin homology <IMM>
F:86/Binding site: carbohydrate (Asn) (covalent) #status predicted

Query Match 2.6%; Score 8; DB 1; Length 342;
Best Local Similarity 100.0%; Pred. No. 6.7;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 249 VLVLAVL 256
|||||
Db 253 VLVLAVL 300

RESULT 4
E82933
type I restriction enzyme M protein, truncated homolog U0098 [Imported] - Ureaplasma
C:Species: Ureaplasma urealyticum
C:Date: 18-Aug-2000 #sequence_revision 20-Aug-2000 #text_change 20-Aug-2000
C:Accession: E82933
R:Glass, J.I.; Lefkowitz, E.J.; Glass, J.S.; Heiner, C.R.; Chen, E.Y.; Cassell, G.H.
submitted to Genbank, February 2000
A:Description: The complete sequence of Ureaplasma urealyticum. Alternate views of a
A:Reference number: A82870

A:Accession: E82933
A:Status: preliminary
A:Molecule type: DNA
A:Residues: 1-348 <GLA>
A:Cross-references: GB:AE002110; GB:AF222894; NID:g6899051; PIDN:AAF30504.1; GSPDB:GN
A:Experimental source: serovar 3; biovar 1
C:Genetics:
A:Gene: hsdM-1; U0098
A:Genetic code: SGC3

Query Match 2.6%; Score 8; DB 2; Length 348;
Best Local Similarity 100.0%; Pred. No. 6.8;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 123 RKEIDETV 130
|||||
Db 336 RKEIDETV 343

RESULT 5

JH0546
class I histocompatibility antigen Gogo-C0202 heavy chain precursor - lowland gorilla
C:Species: Gorilla gorilla gorilla (lowland gorilla)
C:Date: 30-Jun-1992 #sequence_revision 30-Jun-1992 #text_change 23-Jul-1999
C:Accession: JH0546
R:Lawlor, D.A.; Warren, E.; Taylor, P.; Parham, P.
J. Exp. Med. 174, 1491-1509, 1991
A:Title: Gorilla class I major histocompatibility complex alleles: comparison to human.
A:Reference number: JH0534; MUID:92078860
A:Accession: JH0546
A:Molecule type: DNA
A:Residues: 1-366 <LAW>
A:Cross-references: EMBL:X60249; NID:g22882; PIDN:CAA42801.1; PID:g22883
A:Experimental source: EBV-transformed B cell
C:Genetics:
A:Insertions: 25/1; 115/1; 207/1; 299/1; 339/1; 350/1; 366/1
C:Superfamily: class I histocompatibility antigen; immunoglobulin homology
C:Keywords: transmembrane protein
F:1-24/Domain: signal sequence #status predicted <SIG>
F:25-366/Product: class I histocompatibility antigen heavy chain, Gogo-C0202 #status
F:25-114/Domain: alpha-1 <AL1>
F:115-206/Domain: alpha-2 <AL2>
F:207-298/Domain: alpha-3 <AL3>
F:220-285/Domain: immunoglobulin homology <IMM>
F:299-366/Domain: intracellular #status predicted <INT>

Query Match 2.6%; Score 8; DB 2; Length 366;
Best Local Similarity 100.0%; Pred. No. 7.1;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 249 VLVLAVL 256
|||||
Db 317 VLVLAVL 324

RESULT 6

JH0547
class I histocompatibility antigen Gogo-C0203 heavy chain precursor - lowland gorilla
C:Species: Gorilla gorilla gorilla (lowland gorilla)
C:Date: 30-Jun-1992 #sequence_revision 30-Jun-1992 #text_change 23-Jul-1999

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OM protein - protein search, using sw model

Run on: September 19, 2002, 17:46:24 : Search time 17.64 Seconds

(without alignments)
680.446 Million cell updates/sec

Title: US-09-524-531c-15
Perfect score: 310
Sequence: 1 MALRRPRLRLCARLPDFLL.....VNYIRDEGDFRHKSSFYV 310

Scoring table:
Gapop 60.0 , Gapext 60.0

Searched: 105224 seqs, 38719550 residues

size : 0

Total number of hits satisfying chosen parameters: 105224

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Listing first 75 summaries

Database : SwissProt_40:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	8	2.6	80	1	TX3A_PHONI
2	8	2.6	342	1	ICXX_HUMAN
3	8	2.6	366	1	IC02_GORGO
4	8	2.6	366	1	IC03_GORGO
5	8	2.6	366	1	IC04_GORGO
6	8	2.6	366	1	IC11_HUMAN
7	8	2.6	435	1	VGIR_SALTY
8	7	2.3	224	1	XLRI_MOUSE
9	7	2.3	244	1	TNFC_HUMAN
10	7	2.3	302	1	HTPX_AQUAE
11	7	2.3	306	1	TNFC_MOUSE
12	7	2.3	333	1	GPR8_HUMAN
13	7	2.3	343	1	HMD_MEIYO
14	7	2.3	403	1	TYRP_CERAE
15	7	2.3	417	1	PVR_CERAE
16	7	2.3	417	1	PVR_HUMAN
17	7	2.3	454	1	APY_SOLRU
18	7	2.3	481	1	LMRA_STRLN
19	7	2.3	491	1	CPB4_RABIT
20	7	2.3	491	1	CPB5_RABIT
21	7	2.3	524	1	GTR2_HUMAN
22	7	2.3	595	1	IE2P_ARCFU
23	7	2.3	617	1	PYS1_PSEAE
24	7	2.3	643	1	PGT_HUMAN
25	7	2.3	643	1	PGT_RAT
26	7	2.3	688	1	PYS2_PSEAE
27	7	2.3	697	1	TGLC_CHICK
28	7	2.3	721	1	VJLY_ECOLI
29	7	2.3	758	1	SC18_YEAST
30	7	2.3	840	1	CC16_YEAST
31	7	2.3	961	1	SCA4_RICE
32	7	2.3	987	1	R6P1_CANAL
33	7	2.3	991	1	SCA4_RICSI

34	7	2.3	1011	1	SCA4_RICAF	09aj83 rickettsia
35	7	2.3	1011	1	SCA4_RICIN	09aj82 rickettsia
36	7	2.3	1012	1	SCA4_RICL	09aj80 rickettsia
37	7	2.3	1013	1	SCA4_RICR	09aj81 rickettsia
38	7	2.3	1018	1	SCA4_RICJA	09aj79 rickettsia
39	7	2.3	1022	1	SCA4_RICN	052658 rickettsia
40	7	2.3	1053	1	ITR3_MOUSE	062470 mus musculus
41	7	2.3	1066	1	ITR3_CRISP	171852 rickettsiae
42	7	2.3	1066	1	ITR3_HUMAN	171852 rickettsiae
43	7	2.3	1105	1	YGE_ECOLI	P26006 homo sapien
44	7	2.3	1169	1	EX5B_BORBU	P38097 escherichia
45	7	2.3	1234	1	YXK5_CAEL	051578 borrelia bu
46	7	2.3	1234	1	YXK5_CAEL	P34578 caenorhabdi
47	7	2.3	1234	1	YXK5_CAEL	015149 homo sapien
48	7	2.3	1234	1	YXK5_CAEL	P58107 homo sapien
49	7	2.3	1234	1	YXK5_CAEL	P15534 notocodrus
50	7	2.3	1234	1	YXK5_CAEL	P80100 ectothiorho
51	7	2.3	1234	1	YXK5_CAEL	P21663 dirosophila
52	7	2.3	1234	1	YXK5_CAEL	028419 archaeoglob
53	7	2.3	1234	1	YXK5_CAEL	052345 mycoplasma
54	7	2.3	1234	1	YXK5_CAEL	014211 schistosach
55	7	2.3	1234	1	YXK5_CAEL	007502 glycine max
56	7	2.3	1234	1	YXK5_CAEL	032233 bacillus su
57	7	2.3	1234	1	YXK5_CAEL	076201 phoneutria
58	7	2.3	1234	1	YXK5_CAEL	076201 phoneutria
59	7	2.3	1234	1	YXK5_CAEL	P45596 streptococc
60	7	2.3	1234	1	YXK5_CAEL	09x88 streptococc
61	7	2.3	1234	1	YXK5_CAEL	P24366 streptococc
62	7	2.3	1234	1	YXK5_CAEL	P44194 haemophilus
63	7	2.3	1234	1	YXK5_CAEL	067065 aquifex aeo
64	7	2.3	1234	1	YXK5_CAEL	P51712 bacterioph
65	7	2.3	1234	1	YXK5_CAEL	029594 sus scrofa
66	7	2.3	1234	1	YXK5_CAEL	P20316 bacterioph
67	7	2.3	1234	1	YXK5_CAEL	Q9wxc4 mus musculu
68	7	2.3	1234	1	YXK5_CAEL	P41540 oryctolagus
69	7	2.3	1234	1	YXK5_CAEL	P32858 saccharomyc
70	7	2.3	1234	1	YXK5_CAEL	P01884 homo sapien
71	7	2.3	1234	1	YXK5_CAEL	P16213 pongo pygma
72	7	2.3	1234	1	YXK5_CAEL	P47301 mycoplasma
73	7	2.3	1234	1	YXK5_CAEL	Q10763 mycobacteri
74	7	2.3	1234	1	YXK5_CAEL	Q59659 paracoccus
75	7	2.3	1234	1	YXK5_CAEL	P01639 mus musculu

ALIGNMENTS

RESULT 1	TX3A_PHONI	STANDARD:	PRT:	80 AA.
ID	TX3A_PHONI			
AC	P81793:			
DT	01-MAR-2002 (Rel. 41, Created)			
DT	01-MAR-2002 (Rel. 41, Last sequence update)			
DT	01-MAR-2002 (Rel. 41, Last annotation update)			
DE	Neurotoxin Pa3a precursor.			
OS	Phoneutria nigriventer (Brazilian armed spider).			
CC	Eukaryota; Metazoa; Arthropoda; Chelicerata; Arachnida; Araneae;			
CC	Araneomorphae; Entelegynae; Lycosoidea; Ctenidae; Phoneutria.			
CC	NCBI_TaxID:6918;			
CC	SEQUENCE FROM N.A.			
CC	RP TISSUE-Venom gland;			
CC	RC MEDLINE-99053416; PubMed-9839681;			
CC	RA Kalapothakis E., Penaforte C.L., Ileano R.M., Cruz J.S., Prado V.F.,			
CC	RA Cordelito M.N., Diniz C.R., Romano-Silva M.A., Prado M.A.M.,			
CC	RT Gomez M.V., Beltrao P.S.L.;			
CC	RT "Cloning, cDNA sequence analysis and patch clamp studies of a toxin			
CC	RT from the venom of the armed spider (Phoneutria nigriventer).";			
CC	RL Toxicon 36:1971-1980(1998).			
CC	CC -1- FUNCTION: ANTAGONIST OF L-TYPE CALCIUM CHANNELS (By similarity).			
CC	CC -1- SUBCELLULAR LOCATION: Secreted.			
CC	CC -1- TISSUE SPECIFICITY: Produced by the venomous gland.			
CC	CC -1- SIMILARITY: BELONGS TO THE SPIDER TOXIN TX3 FAMILY.			

DR InterPro: IPR004169; spider toxin.
 DR Pfam: PF02819; spider toxin; 1.
 KW Calcium channel inhibitor; Toxin; Neurotoxin; Signal.
 FT SIGNAL 1 21 POTENTIAL.
 FT PROPEP 22 37 POTENTIAL.
 FT CHAIN 38 71 NEUROTOXIN PN3A.
 FT PROPEP 72 80 POTENTIAL.
 SQ SEQUENCE 80 AA; 8937 MW; B5BF209257EB6793 CRC64;

Query Match 2.6%; Score 8; DB 1; Length 80;
 Best Local Similarity 100.0%; Pred. No. 0.98;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 256 LALITLGI 263
 DB 12 LALITLGI 19

LT 2
 HUMAN
 ID 1CXX HUMAN STANDARD; PRT: 342 AA.
 AC P10321;
 DT 01-MAR-1989 (Rel. 10, Created)
 DT 01-MAR-1989 (Rel. 10, Last sequence update)
 DE 16-OCT-2001 (Rel. 40, Last annotation update)
 DE HLA class I histocompatibility antigen, C-4 alpha chain.
 GN HLA-C OR HLA-C.
 OS Homo sapiens (Human).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
 OX NCBI_TaxID=9606;
 RN [1]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=86033791; PubMed=3863816;
 RA Davidson W.F., Kress M., Khoury G., Jay G.;
 RT "Comparison of HLA class I gene sequences. Derivation of
 RT locus-specific oligonucleotide probes specific for HLA-A, HLA-B, and
 RT HLA-C genes."
 RL J. Biol. Chem. 260:13414-13423(1985).
 CC -1- FUNCTION: INVOLVED IN THE PRESENTATION OF FOREIGN ANTIGENS TO
 CC THE IMMUNE SYSTEM.
 CC -1- SUBUNIT: DIMER OF ALPHA CHAIN AND A BETA CHAIN (BETA-2-
 CC MICROGLOBULIN).
 CC
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 DR EMBL: M1886; AAA52655.1; -
 DR PIR: A24512; H1HUC4.
 DR HSSP: P30685; 1A9B.
 DR MIM: 142840; -
 DR InterPro: IPR003006; Ig_MHC.
 DR InterPro: IPR003597; Ig_c1.
 DR InterPro: IPR001039; MHC_I.
 DR Pfam: PF00047; Ig_1.
 DR Pfam: PF00129; MHC_I; 1.
 DR ProDom: PD000050; MHC_I; 1.
 DR SMART: SM00407; IgC1; 1.
 DR PROSITE: PS00290; IG_MHC; FALSE_NEG.
 KW MHC I; Transmembrane; Glycoprotein.
 FT DOMAIN 25 90 EXTRACELLULAR ALPHA-1.
 FT DOMAIN 91 182 EXTRACELLULAR ALPHA-2.
 FT DOMAIN 183 274 EXTRACELLULAR ALPHA-3.
 FT DOMAIN 275 284 CONNECTING PEPTIDE.
 FT TRANSMEM 285 309
 FT DOMAIN 310 342
 FT CARBOHYD 86 86 CYTOPLASMIC TAIL.
 N-LINKED (GLCNAC. .) (BY SIMILARITY).

FT DISULFID 164 203 BY SIMILARITY.
 SQ SEQUENCE 342 AA; 38082 MW; 22C39A6D84C05D09 CRC64;

Query Match 2.6%; Score 8; DB 1; Length 342;
 Best Local Similarity 100.0%; Pred. No. 3.5;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 249 VLVVLAVL 256
 DB 293 VLVVLAVL 300

RESULT 3
 1C02 GORGO
 ID 1C02 GORGO STANDARD; PRT: 366 AA.
 AC P30385;
 DT 01-APR-1993 (Rel. 25, Created)
 DT 01-APR-1993 (Rel. 25, Last sequence update)
 DT 01-NOV-1997 (Rel. 35, Last annotation update)
 DE Class I histocompatibility antigen, GOGC-C0201 alpha chain precursor.
 DE Gorilla gorilla gorilla (Lowland gorilla).
 OS Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Gorilla.
 OX NCBI_TaxID=9595;
 RN [1]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=92078860; PubMed=1744581;
 RA Lawlor D.A., Warren E., Taylor P., Parham P.;
 RT "Gorilla class I major histocompatibility complex alleles: comparison
 RT to human and chimpanzee class I."
 RL J. Exp. Med. 174:1491-1509(1991).
 CC -1- FUNCTION: INVOLVED IN THE PRESENTATION OF FOREIGN ANTIGENS TO
 CC THE IMMUNE SYSTEM.
 CC -1- SUBUNIT: DIMER OF ALPHA CHAIN AND A BETA CHAIN (BETA-2-
 CC MICROGLOBULIN).
 CC
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 CC
 DR EMBL: X60251; CAA42803.1; -
 DR PIR: JH0545; JH0545.
 DR HSSP: P30685; 1A9B.
 DR InterPro: IPR003006; Ig_MHC.
 DR InterPro: IPR003597; Ig_c1.
 DR InterPro: IPR001039; MHC_I.
 DR Pfam: PF00047; Ig_1.
 DR Pfam: PF00129; MHC_I; 1.
 DR ProDom: PD000050; MHC_I; 1.
 DR SMART: SM00407; IgC1; 1.
 DR PROSITE: PS00290; IG_MHC; FALSE_NEG.
 KW MHC I; Transmembrane; Glycoprotein; Signal.
 FT SIGNAL 1 24
 FT CHAIN 25 366
 FT DOMAIN 25 114
 FT DOMAIN 115 206
 FT DOMAIN 207 298
 FT DOMAIN 299 308
 FT TRANSMEM 309 333
 FT DOMAIN 334 366
 FT DISULFID 125 188
 FT DISULFID 227 283
 FT CARBOHYD 110 110
 SQ SEQUENCE 366 AA; 40954 MW; 05E159364C769C5 CRC64;

Query Match 2.6%; Score 8; DB 1; Length 366;

GenCore version 4.5
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OM protein - protein search, using sw model

Run on: September 19, 2002, 17:44:45 : Search time 48.09 Seconds
(without alignments)
1115.168 Million cell updates/sec

Title: US-09-524-531c-15
Perfect score: 310
Sequence: 1 MALRRPRLRLCARLPDFL.....VNIITDEGDFRHKSSRFVI 310

Scoring table:
Gapop 60.0 , Gapext 60.0

Searched: 562222 seqs, 172994929 residues

size : 0

Total number of hits satisfying chosen parameters: 562222

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Listing first 75 summaries

Database :

SPREMBL_19:*
1: sp_archaea:*
2: sp_bacteria:*
3: sp_fungi:*
4: sp_human:*
5: sp_invertebrate:*
6: sp_mammal:*
7: sp_mhc:*
8: sp_organelle:*
9: sp_phage:*
10: sp_plant:*
11: sp_rodent:*
12: sp_virus:*
13: sp_vertebrate:*
14: sp_unclassified:*
15: sp_virus:*
16: sp_bacteriaph:*
17: sp_archaeap:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Length	DB ID	Description
1	310	100.0	310 4 Q9BX67	Q9BX67 homo sapien
2	208	67.1	309 4 Q96FL1	Q96FL1 homo sapien
3	32	10.3	310 11 Q9D8B7	Q9D8B7 mus musculu
4	28	9.0	310 11 Q9EPK4	Q9EPK4 mus musculu
5	28	9.0	310 11 Q9D1M9	Q9D1M9 mus musculu
6	8	2.6	39 7 Q9TWT2	Q9TWT2 homo sapien
7	8	2.6	80 5 P81793	P81793 phoneutria
8	8	2.6	125 11 Q9CS62	Q9CS62 mus musculu
9	8	2.6	233 10 Q9LR49	Q9LR49 aradidopsis
10	8	2.6	246 5 Q966C0	Q966C0 caenorhabdi
11	8	2.6	290 7 Q92990	Q92990 homo sapien
12	8	2.6	294 16 Q98E09	Q98E09 rhizobium 1
13	8	2.6	309 8 Q9NAY9	Q9NAY9 caenorhabdi
14	8	2.6	313 7 Q9MY31	Q9MY31 homo sapien
15	8	2.6	322 2 Q9RP17	Q9RP17 desulfitoba
16	8	2.6	336 10 Q9C7E9	Q9C7E9 aradidopsis

17	8	2.6	338 7 Q9MXL5	Q9MXL5 pan troglod
18	8	2.6	348 7 Q9MMJ9	Q9MMJ9 gorilla gor
19	8	2.6	348 16 Q9PR46	Q9PR46 ureaplasma
20	8	2.6	363 7 Q95HC2	Q95HC2 homo sapien
21	8	2.6	365 7 Q9XRX8	Q9XRX8 pongo pygma
22	8	2.6	365 7 Q9XRX7	Q9XRX7 pongo pygma
23	8	2.6	365 7 Q9MXG4	Q9MXG4 pan troglod
24	8	2.6	366 6 Q46684	Q46684 pan troglod
25	8	2.6	366 7 Q9TFL2	Q9TFL2 pan troglod
26	8	2.6	366 7 Q9MXD2	Q9MXD2 pan troglod
27	8	2.6	366 7 Q95603	Q95603 homo sapien
28	8	2.6	366 7 Q95463	Q95463 homo sapien
29	8	2.6	366 7 Q92985	Q92985 homo sapien
30	8	2.6	366 7 Q78083	Q78083 homo sapien
31	8	2.6	366 7 Q9TP09	Q9TP09 homo sapien
32	8	2.6	366 7 Q29652	Q29652 homo sapien
33	8	2.6	366 7 Q19617	Q19617 homo sapien
34	8	2.6	366 7 Q9C1F4	Q9C1F4 lactococcus
35	8	2.6	1290 13 Q9W6E1	Q9W6E1 gallus gall
36	7	2.3	77 4 P78370	P78370 homo sapien
37	7	2.3	85 12 Q99GX8	Q99GX8 helicoverp
38	7	2.3	113 16 Q928J9	Q928J9 listeria in
39	7	2.3	146 17 Q973F7	Q973F7 sulfolobus
40	7	2.3	158 2 Q9EWB3	Q9EWB3 streptomyce
41	7	2.3	161 2 Q9FBR8	Q9FBR8 streptomyce
42	7	2.3	171 16 Q06422	Q06422 mycobacteri
43	7	2.3	172 10 Q9S208	Q9S208 aradidopsis
44	7	2.3	173 5 Q22966	Q22966 caenorhabdi
45	7	2.3	173 10 Q64567	Q64567 aradidopsis
46	7	2.3	173 17 Q972K3	Q972K3 sulfolobus
47	7	2.3	177 16 Q931Y0	Q931Y0 staphylococ
48	7	2.3	179 2 Q9RKC2	Q9RKC2 streptomyce
49	7	2.3	191 10 Q9XHM2	Q9XHM2 medicago tr
50	7	2.3	202 6 Q9TUP5	Q9TUP5 ceropithec
51	7	2.3	202 6 Q9TUP4	Q9TUP4 prothecus
52	7	2.3	208 10 Q80501	Q80501 aradidopsis
53	7	2.3	208 10 Q40525	Q40525 nicotiana t
54	7	2.3	211 16 Q9CDV2	Q9CDV2 lactococcus
55	7	2.3	214 2 Q32618	Q32618 helicobacte
56	7	2.3	214 6 Q62722	Q62722 oryctolabus
57	7	2.3	217 12 Q9YMN1	Q9YMN1 lymantria d
58	7	2.3	224 11 Q9R1M6	Q9R1M6 mus musculu
59	7	2.3	227 12 Q91BE2	Q91BE2 spodoptera
60	7	2.3	242 17 Q9HPH6	Q9HPH6 halobacteri
61	7	2.3	242 61 Q96XAL	Q96XAL sulfolobus
62	7	2.3	247 4 Q75192	Q75192 homo sapien
63	7	2.3	255 2 Q50521	Q50521 streptomyce
64	7	2.3	267 3 Q9Y7B2	Q9Y7B2 emeticella
65	7	2.3	275 16 Q92NE9	Q92NE9 rhizobium m
66	7	2.3	277 11 P70361	P70361 mus musculu
67	7	2.3	280 9 Q9XJ89	Q9XJ89 bacterioph
68	7	2.3	286 2 Q9EWO5	Q9EWO5 streptomyce
69	7	2.3	292 10 Q9SE74	Q9SE74 brassica ca
70	7	2.3	294 10 Q9SE75	Q9SE75 brassica ol
71	7	2.3	294 16 Q9RBL4	Q9RBL4 bacillus ha
72	7	2.3	297 16 Q9JXB2	Q9JXB2 neisseria m
73	7	2.3	300 16 Q9JMV3	Q9JMV3 neisseria m
74	7	2.3	306 16 Q92K19	Q92K19 rhizobium m
75	7	2.3	310 11 Q9JMI1	Q9JMI1 marmota mon

ALIGNMENTS

RESULT 1
ID Q9BX67
AC Q9BX67;
DT 01-JUN-2001 (TREMBLrel. 17, Created)
DT 01-JUN-2001 (TREMBLrel. 17, Last sequence update)
DT 01-DEC-2001 (TREMBLrel. 19, Last annotation update)
DE JUNCTIONAL ADHESION MOLECULE 3 PRECURSOR (JUNCTIONAL ADHESION MOLECULE-2).

JAM-2.
 GN Homo sapiens (Human).
 OS Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Primates; Catarrhini; Hominoidea; Homo.
 NCBI_TaxID=9606;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC TISSUE=BRIN;
 RA Cunningham S.A., Arrate M.P., Tran T.M.;
 RT "Cloning of Human Junctional Adhesion Molecule 3."
 RL Submitted (MAR-2001) to the EMBL/GenBank/DBJ databases.
 RP SEQUENCE FROM N.A.
 RA Aurand-Lions M.A., Johnson-leger C., Mong C., Dupasquier L.;
 RT "Heterogeneity of endothelial junctions is reflected by differential
 expression and specific subcellular localization of the three JAM
 family members."
 RL Submitted (AUG-2001) to the EMBL/GenBank/DBJ databases.
 RN [3]
 RP SEQUENCE FROM N.A.
 RA Aurand-Lions M.A., Johnson-leger C., Lamagna C., Ozaki H., Kita T.;
 RT "Junctional adhesion molecules (JAMs) and interendothelial
 junctions."
 RL Submitted (AUG-2001) to the EMBL/GenBank/DBJ databases.
 DR EMBL; AF356518; AAK7221.1; -
 DR EMBL; AJ344431; CAC69845.1; -
 DR InterPro: IPR003599; 1g_c2.
 DR InterPro: IPR003598; 1g_c2.
 DR InterPro: IPR003600; 1g_like.
 DR InterPro: IPR003066; 1g_MHC.
 DR Pfam: PF00047; 1g; 2.
 DR SMART: SM00409; 1g; 2.
 DR SMART: SM00408; 1g; 2.
 DR SMART: SM00410; 1g_like; 1.
 DR Immunoglobulin domain; Signal.
 FT SIGNAL 1 30
 SQ SEQUENCE 310 AA; 35020 MW; CE39ADF3EALDAB9 CRC64;

Query Match 100.0%; Score 310; DB 4; Length 310;
 Best Local Similarity 100.0%; Pred. No. 0;
 Matches 310; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MALRRPRLRLCARLPDFLLFRGCLIGAVNLKSSNRPVVOEFSEVELSCITTSQT 60
 DB 1 MALRRPRLRLCARLPDFLLFRGCLIGAVNLKSSNRPVVOEFSEVELSCITTSQT 60
 QY 61 SDRRIEMKKIQDEQTYVFFDNKIQGLAGRAEILKTSIKIMNVTFRDSALYRCEVVAR 120
 DB 61 SDRRIEMKKIQDEQTYVFFDNKIQGLAGRAEILKTSIKIMNVTFRDSALYRCEVVAR 120
 QY 121 NDRKEIDELIETLVQVKPVPYCRPKAVPVGMATLHCQSEGHPRPHYSWYRNDVPL 180
 DB 121 NDRKEIDELIETLVQVKPVPYCRPKAVPVGMATLHCQSEGHPRPHYSWYRNDVPL 180
 QY 181 PDSRANPRFRNSSFHLNSETGLVFTAVHKDQSGQYCIASNDASARCEQEMEYIDL 240
 DB 181 PDSRANPRFRNSSFHLNSETGLVFTAVHKDQSGQYCIASNDASARCEQEMEYIDL 240
 QY 241 NIGGIIGVLYLAVLALITLIGICAYRGRGYFINNKQDESEYKPNKPGVNIIRTDDEG 300
 DB 241 NIGGIIGVLYLAVLALITLIGICAYRGRGYFINNKQDESEYKPNKPGVNIIRTDDEG 300
 QY 301 DFRHKSFEVI 310
 DB 301 DFRHKSFEVI 310

RESULT 2
 ID 096FL1 PRELIMINARY; PRT; 309 AA.
 AC 096FL1
 DT 01-DEC-2001 (TREMBlrel. 19, Created)

DT 01-DEC-2001 (TREMBlrel. 19, Last sequence update)
 DT 01-DEC-2001 (TREMBlrel. 19, Last annotation update)
 DE UNKNOWN (PROTEIN FOR IMAGE:3875338) (FRAGMENT).
 OS Homo sapiens (Human).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Primates; Catarrhini; Hominoidea; Homo.
 NCBI_TaxID=9606;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC TISSUE=EYE AND RETINOBLASTOMA;
 RA Strausberg R.;
 RT Submitted (JUL-2001) to the EMBL/GenBank/DBJ databases.
 DR EMBL; BC010690; AAH10690.1; -
 FT NON_TER 1
 SQ SEQUENCE 309 AA; 34917 MW; 50C5B1B7872E8DF3 CRC64;

Query Match 67.1%; Score 208; DB 4; Length 309;
 Best Local Similarity 99.7%; Pred. No. 2.2e-204;
 Matches 308; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 ALRRPRLRLCARLPDFLLFRGCLIGAVNLKSSNRPVVOEFSEVELSCITTSQT 61
 DB 1 ALRRPRLRLCARLPDFLLFRGCLIGAVNLKSSNRPVVOEFSEVELSCITTSQT 60
 QY 62 DRIEMKKIQDEQTYVFFDNKIQGLAGRAEILKTSIKIMNVTFRDSALYRCEVVAR 121
 DB 61 DRIEMKKIQDEQTYVFFDNKIQGLAGRAEILKTSIKIMNVTFRDSALYRCEVVAR 120
 QY 122 DRKEIDELIETLVQVKPVPYCRPKAVPVGMATLHCQSEGHPRPHYSWYRNDVPL 181
 DB 122 DRKEIDELIETLVQVKPVPYCRPKAVPVGMATLHCQSEGHPRPHYSWYRNDVPL 180
 QY 182 TDSRANPRFRNSSFHLNSETGLVFTAVHKDQSGQYCIASNDASARCEQEMEYIDL 241
 DB 181 TDSRANPRFRNSSFHLNSETGLVFTAVHKDQSGQYCIASNDASARCEQEMEYIDL 240
 QY 242 IGGIIGVLYLAVLALITLIGICAYRGRGYFINNKQDESEYKPNKPGVNIIRTDDEG 301
 DB 241 IGGIIGVLYLAVLALITLIGICAYRGRGYFINNKQDESEYKPNKPGVNIIRTDDEG 300
 QY 302 FRRHKSFEVI 310
 DB 301 FRRHKSFEVI 309

RESULT 3
 ID 09DB87 PRELIMINARY; PRT; 310 AA.
 AC 09DB87
 DT 01-JUN-2001 (TREMBlrel. 17, Created)
 DT 01-JUN-2001 (TREMBlrel. 17, Last sequence update)
 DT 01-DEC-2001 (TREMBlrel. 19, Last annotation update)
 DE 1110002N23RIK PROTEIN.
 GN JCMW2 OR 1110002N23RIK.
 OS Mus musculus (Mouse).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 NCBI_TaxID=10090;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN=C57BL/6J; TISSUE=SMALL INTESTINE;
 RX MEDLINE=21085660; PubMed=11217851;
 RA Kawai J., Shinagawa A., Shibata K., Yoshino M., Itoh M., Ishii Y.,
 Aizawa K., Izawa M., Nishi K., Kiyosawa H., Kondo S., Yamana K.,
 Saito T., Okazaki Y., Gojobori T., Bono H., Kasukawa T., Saito R.,
 Kadota K., Matsuda H.A., Ashburner M., Batalov S., Casavant T.,
 Fleischmann W., Gaasterland T., Gissi C., King B., Kochiwa H.,
 Kuehl P., Lewis S., Matsuo Y., Nikaido I., Pesole G., Quackenbush J.,
 Schriml L.M., Staubli F., Suzuki R., Tomita M., Wagner L., Washio T.,
 Sakai K., Okido T., Furuno M., Aono H., Baidarelli R., Barsh G.,
 Blake J., Boffelli D., Bojunga N., Carninci P., de Bonaldo M.F.,

GenCore version 4.5
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OM protein - protein search, using sw model

Run on: September 19, 2002, 17:39:08 : Search time 52.83 Seconds
(without alignments)
651.767 Million cell updates/sec

Title: US-09-524-531C-15

Perfect score: 310
Sequence: 1 MALRRPRRLCARLPDFLL.....VNYIRDESGDFRHKSEFYI 310

Scoring table:

Gapop 60.0 , Gapext 60.0

Searched: 747574 seqs, 111073796 residues

size : 0

Total number of hits satisfying chosen parameters: 747574

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Listing first 75 summaries

Database :

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4: /SIDS1/gcgdata/hold-geneseq/geneseq-emb1/AA1983.DAT:*
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6: /SIDS1/gcgdata/hold-geneseq/geneseq-emb1/AA1985.DAT:*
7: /SIDS1/gcgdata/hold-geneseq/geneseq-emb1/AA1986.DAT:*
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20: /SIDS1/gcgdata/hold-geneseq/geneseq-emb1/AA1999.DAT:*
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22: /SIDS1/gcgdata/hold-geneseq/geneseq-emb1/AA2001.DAT:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	310	100.0	310	21	AAB27276 Human confuency r
2	310	100.0	310	21	AAB33457 Human PRO1688 prot
3	310	100.0	310	21	AA196735 PRO1688, an A33 an
4	310	100.0	310	22	AAW33323 Human polypeptide,
5	310	100.0	310	22	AAW33905 Human polypeptide,
6	310	100.0	310	22	AAU12440 Human PRO1688 poly
7	310	100.0	310	22	AAB80272 Human PRO1688 prot
8	310	100.0	310	22	AAB80383 Secreted protein e
9	310	100.0	310	22	AAB80408 Secreted protein e
10	310	100.0	310	22	AAB80409 Secreted protein e
11	310	100.0	311	21	AAB38333 Human secreted pro

12	310	100.0	311	21	AAB38383 Human secreted pro
13	310	100.0	311	21	AAB38384 Human secreted pro
14	310	100.0	339	22	AAB80431 Gene #13 associate
15	209	67.4	310	21	AA196294 Human IGFAM-6 Immu
16	161	51.9	285	21	AAB39254 Human secreted pro
17	151	48.7	291	22	ABG04645 Novel human diagno
18	151	48.7	404	22	ABG12109 Novel human diagno
19	104	33.5	361	22	ABG22401 Novel human diagno
20	89	28.7	89	20	AA111472 Human 5' EST seque
21	63	20.3	267	22	ABG27038 Novel human diagno
22	51	16.5	264	22	ABG07157 Novel human diagno
23	51	16.5	301	22	ABG22399 Novel human diagno
24	38	12.3	68	22	ABG22398 Novel human diagno
25	24	7.7	310	21	AAB27272 Human confuency r
26	24	7.7	310	21	AAB27276 Human confuency r
27	8	2.6	31	22	AAB29193 Peptide #1844 enco
28	8	2.6	31	22	ABR34350 Peptide #1856 enco
29	8	2.6	31	22	ABR19768 Protein #1768 enco
30	8	2.6	31	22	AAW55147 Human brain expres
31	8	2.6	31	22	AAW67540 Human bone marrow
32	8	2.6	31	22	AAW15353 Peptide #1787 enco
33	8	2.6	31	22	AAW27831 Peptide #1868 enco
34	8	2.6	31	22	AAW03112 Arabidopsis thalia
35	8	2.6	120	21	AAG30027 Arabidopsis thalia
36	8	2.6	154	21	AAG30026 Arabidopsis thalia
37	8	2.6	190	21	AAG30025 Arabidopsis thalia
38	7	2.3	21	21	AAB27269 Murine CRAW-1 tyro
39	7	2.3	12	16	AAB83341 Kb-binding Random
40	7	2.3	14	16	AAB83451 Arabidopsis thalia
41	7	2.3	39	22	ABR44378 Human secreted pro
42	7	2.3	39	22	ABR31269 Peptide #3920 enco
43	7	2.3	39	22	ABR36477 Peptide #3983 enco
44	7	2.3	39	22	ABR21819 Protein #3818 enco
45	7	2.3	39	22	AAW56961 Human brain expres
46	7	2.3	39	22	AAW17457 Human bone marrow
47	7	2.3	39	22	AAW29977 Peptide #4014 enco
48	7	2.3	39	22	AAW05124 Peptide #3816 enco
49	7	2.3	40	22	AAG74530 Human colon cancer
50	7	2.3	56	22	AAW04488 Human polypeptide
51	7	2.3	58	22	AAW49383 Protonibacterium
52	7	2.3	67	21	AAG34555 Arabidopsis thalia
53	7	2.3	70	21	AAG34554 Arabidopsis thalia
54	7	2.3	71	22	AAW11264 Human polypeptide
55	7	2.3	73	22	AAU39482 Protonibacterium
56	7	2.3	78	22	ABG29189 Novel human diagno
57	7	2.3	87	22	AAU19792 Human novel extrac
58	7	2.3	89	21	AAG59032 Human secreted pro
59	7	2.3	92	21	AAG59054 Arabidopsis thalia
60	7	2.3	92	21	AAG60335 Arabidopsis thalia
61	7	2.3	92	21	AAW73830 Human prostate tum
62	7	2.3	102	22	AAW09976 Human polypeptide
63	7	2.3	104	22	AAG82299 S. epidermidis ope
64	7	2.3	106	21	AAG59053 Arabidopsis thalia
65	7	2.3	110	21	ABG04070 Novel human diagno
66	7	2.3	127	22	AAW38779 Human secreted pro
67	7	2.3	135	20	AAW38779 Neisseria meningit
68	7	2.3	149	21	AAG58379 Arabidopsis thalia
69	7	2.3	152	21	AAG60639 Arabidopsis thalia
70	7	2.3	158	21	AAW20313 H. pylori surface
71	7	2.3	162	18	AAG16659 Arabidopsis thalia
72	7	2.3	172	21	AAG58378 Arabidopsis thalia
73	7	2.3	173	21	AAW16658 Arabidopsis thalia
74	7	2.3	175	21	
75	7	2.3	175	21	

ALIGNMENTS

RESULT 1
AAB27276 standard; Protein: 310 AA.
ID AAB27276 standard; Protein: 310 AA.
xx

Query Match	100.0%	Score 310:	DB 21:	Length 310:
Best Local Similarity	100.0%	Pred. No. 1,7e-295;		
Matches 310;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
1	MAIRRPRLRLCARLDPFLLLRGLIGAVNLKSNRPVVOEFESVELSCITINDSQT	60		
1	MAIRRPRLRLCARLDPFLLLRGLIGAVNLKSNRPVVOEFESVELSCITINDSQT	60		
1	MAIRRPRLRLCARLDPFLLLRGLIGAVNLKSNRPVVOEFESVELSCITINDSQT	60		
61	SDPRIEMKRIODEQTTVVFEDNKTIGDLAGRAEILGKTSIKTWNTRDSALRYCEVAR	120		
61	SDPRIEMKRIODEQTTVVFEDNKTIGDLAGRAEILGKTSIKTWNTRDSALRYCEVAR	120		
61	SDPRIEMKRIODEQTTVVFEDNKTIGDLAGRAEILGKTSIKTWNTRDSALRYCEVAR	120		
121	NDRKEIDEIYELTVOVKPPTVCRRPKAVPVGKMTLCOESEGHPRHYSWRNDVPL	180		
121	NDRKEIDEIYELTVOVKPPTVCRRPKAVPVGKMTLCOESEGHPRHYSWRNDVPL	180		
121	NDRKEIDEIYELTVOVKPPTVCRRPKAVPVGKMTLCOESEGHPRHYSWRNDVPL	180		
181	PTDSRANPRERNSSPHLNFSETGLVPTAAHKDSDGOYCIASNDASACEQEMEVYL	240		
181	PTDSRANPRERNSSPHLNFSETGLVPTAAHKDSDGOYCIASNDASACEQEMEVYL	240		
181	PTDSRANPRERNSSPHLNFSETGLVPTAAHKDSDGOYCIASNDASACEQEMEVYL	240		
241	NIGGIIGGVULVAVLALTLTGICCAVRRKGYFINNKODESSTYNNPEKPPGVNTRIDEG	300		
241	NIGGIIGGVULVAVLALTLTGICCAVRRKGYFINNKODESSTYNNPEKPPGVNTRIDEG	300		
241	NIGGIIGGVULVAVLALTLTGICCAVRRKGYFINNKODESSTYNNPEKPPGVNTRIDEG	300		
301	DFRHKSSFVL 310			
301	DFRHKSSFVL 310			
301	DFRHKSSFVL 310			
301	DFRHKSSFVL 310			

AAB33457		
ID	AAB33457 standard; Protein: 310 AA.	
XX		
AC		
XX	AAB33457;	
DT		
XX	29-JAN-2001 (first entry)	
DE		
XX	Human PRO1868 protein UNQ859 SEQ ID NO:193.	
XX		
KM	Human; immune related disease; diagnosis; antinflammatory; cardiant;	
KM	dematological; antiarthritic; antirheumatic; immunosuppressive;	
KM	haemostatic; antithyroid; antidiabetic; neutropic; neuroprotective;	
KM	antianemic; hepatotropic; virucide; antipsoritic; antiallergic;	
KM	antiasmatics; systemic lupus erythematosus; rheumatoid arthritis;	
KM	osteoarthritis; spondylarthrophy; systemic sclerosis; sarcoidosis;	
KM	idiopathic inflammatory myopathy; Sjogren's syndrome; thyroiditis;	
KM	systemic vasculitis; autoimmune haemolytic anaemia; diabetes mellitus	
KM	autoimmune thrombocytopaenia; immune-mediated renal disease;	
KM	demyelinating disease; hepatobiliary disease; Whipple's disease;	
KM	inflammatory bowel disease; gluten-sensitive enteropathy;	
KM	autoimmune disease; immune-mediated skin disease; allergic disease;	
KM	immunological disease; transplantation associated disease;	
KM	graft rejection; graft-versus-host-disease.	
OS	Homo sapiens.	
XX		
XX		
PN	WO20053758-A2.	
XX		
PD	14-SEP-2000.	
XX		
PF	02-MAR-2000; 2000MO-USO5841.	
XX		
XX		
PR	08-MAR-1999; 99MO-USO5028.	
PR	10-MAR-1999; 99US-0123618.	
PR	12-MAR-1999; 99US-0123957.	
PR	23-MAR-1999; 99US-0125775.	
PR	12-APR-1999; 99US-0128849.	
PR	20-APR-1999; 99MO-USO8615.	
PR	28-APR-1999; 99US-0131445.	
PR	04-MAY-1999; 99US-0132371.	
PR	14-MAY-1999; 99US-0134287.	
PR	02-JUN-1999; 99MO-US12252.	
PR	23-JUN-1999; 99US-0141037.	
PR	20-JUL-1999; 99US-0144758.	
PR	26-JUL-1999; 99US-0145658.	
PR	28-JUL-1999; 99US-0146222.	
PR	01-SEP-1999; 99MO-US20111.	
PR	08-SEP-1999; 99MO-US20594.	
PR	13-SEP-1999; 99MO-US20944.	
PR	15-SEP-1999; 99MO-US21080.	
PR	15-SEP-1999; 99MO-US21547.	
PR	05-OCT-1999; 99MO-US23089.	
PR	29-OCT-1999; 99US-0162506.	
PR	29-NOV-1999; 99MO-US28214.	
PR	30-NOV-1999; 99MO-US28313.	
PR	30-NOV-1999; 99MO-US28409.	
PR	01-DEC-1999; 99MO-US28301.	
PR	01-DEC-1999; 99MO-US28634.	
PR	02-DEC-1999; 99MO-US28551.	
PR	02-DEC-1999; 99MO-US28564.	
PR	16-DEC-1999; 99MO-US28565.	
PR	16-DEC-1999; 99MO-US30095.	
PR	20-DEC-1999; 99MO-US30999.	
PR	30-DEC-1999; 99MO-US31274.	
PR	05-JAN-2000; 2000MO-US00219.	
PR	06-JAN-2000; 2000MO-US00277.	
PR	11-FEB-2000; 2000MO-US00376.	
PR	18-FEB-2000; 2000MO-US03565.	
PR	18-FEB-2000; 2000MO-US04341.	
PR	22-FEB-2000; 2000MO-US04342.	
PR	22-FEB-2000; 2000MO-US04414.	
PA	(GETH) GENENTECH INC.	

XX Ashkenazi AJ, Baker KP, Goddard A, Gurney AL, Hebert C, Henzel W;
 PI Kabakoff RC, Lu Y, Pan J, Pennica D, Shelton DL, Smith V;
 PI Stewart TA, Tumas D, Watanabe CK, Wood WI, Yan W;
 DR MPI: 2000-572271/53.
 DR N-PSDB; AAC58622.

PT Sixty four PRO polypeptides, useful in the diagnosis and treatment of
 PT immune related disorders, e.g. systemic lupus erythematosus, rheumatoid
 PT arthritis, osteoarthritis, thyroiditis and diabetes mellitus -
 XX
 XX
 PS Claim 33: Fig 88; 309pp; English.

CC The present invention describes sixty four human PRO proteins which can
 CC be used in the treatment of immune related diseases. The human PRO
 CC proteins, anti-PRO antibodies, agonists and antagonists are useful for
 CC treating and diagnosing immune related disorders. The disorders are
 CC selected from systemic lupus erythematosus, rheumatoid arthritis,
 CC osteoarthritis, juvenile chronic arthritis, spondyloarthropathies,
 CC systemic sclerosis, idiopathic inflammatory myopathies, Sjogren's
 CC syndrome, systemic vasculitis, sarcoidosis, autoimmune haemolytic
 CC anaemia, autoimmune thrombocytopaenia, thyroiditis, diabetes mellitus,
 CC immune-mediated renal disease, demyelinating diseases of the central
 CC and peripheral nervous systems, hepatobiliary diseases, inflammatory
 CC bowel disease, gluten-sensitive enteropathy and Whipple's disease,
 CC autoimmune or immune-mediated skin diseases, allergic diseases,
 CC immunological diseases of the lung, and transplantation associated
 CC diseases including graft rejection and graft-versus-host-disease.
 CC AAC58397 to AAC58578 represent PCR primers and hybridisation probes used
 CC in the isolation of human PRO sequences. AAC58579 to AAC58642 and
 CC AAB33444 to AAB33477 represent human PRO polynucleotide and protein
 CC sequences given in the exemplification of the present invention.

XX Sequence 310 AA:

Query Match 100.0%; Score 310; DB 21; Length 310;
 Best Local Similarity 100.0%; Pred. No. 1.7e-295;
 Matches 310; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 MALRRPRLRLCARLPDFLLFRGLIGAVNLKSSNRPVQEFSEVLSCTITDSQT 60
 DB 1 malrrprrlrlcarlpdfflllfrgcllgavnlksnrtprvqefesvlscltldsgt 60
 OY 61 SPPRIEMKKIOBQTYTVFEDNKIOGDLGRAEIIKTSIKTNTWTRRSALRYCVAR 120
 DB 61 sppriemkkioqbtytvfndkioqdlgraeiiktsiktnwtrrsalrycvar 120
 OY 121 NDRKEIDEIVIELTQVKKPVPVCRKAVPVGKMATLHCQSESGHPRPHYSWYRDVPL 180
 DB 121 ndrkeideiviel tqvkkpvpvc rkvavpv gkmatlh cqseshprphyswyr dvp l 180
 OY 181 PIDSRRANPRFRNSFHLNSETGTLVFTAVHKDSCGYCIASNDAGSARCEQEMEVYDL 240
 DB 181 pidsrranprfrnsfhl nsetgtlvftavhk dscgy ci asndagsarceeqem evydl 240
 OY 241 NIGGIIGVLYVLAVALTLTGICCAVRGYPFNKCODESKRPPKPGVWYIRRDGEG 300
 DB 241 niggiigvlyv lavaltl tlgicca vrgypfn kcode skrppkpgvwyir rdgeg 300
 OY 301 DFRHKSFEVI 310
 DB 301 dfrhksfevl 310

RESULT 3
 ID AAY96735
 XX AAY96735 standard; Protein: 310 AA.
 AC AAY96735;
 XX
 DT 26-SEP-2000 (first entry)

XX
 DE PRO1868, an A33 antigen homologue.
 XX
 KW PRO1868; A33 antigen; secreted protein; transmembrane protein;
 KW anti-inflammatory; cytosolic; recombinant production; gene therapy.
 XX
 OS Homo sapiens.

Key	Location/Qualifiers
FT Peptide	1..30
FT	/label= Signal_peptide
FT Modified-site	26..31
FT	/note= "N-myristoylation site"
FT Modified-site	69..77
FT	/note= "Tyrosine kinase phosphorylation site"
FT Modified-site	104..107
FT	/note= "N-glycosylation site"
FT Modified-site	106..109
FT	/note= "Casein kinase II phosphorylation site"
FT Modified-site	107..110
FT	/note= "cAMP- and cGMP-dependent protein kinase phosphorylation site"
FT Modified-site	192..195
FT	/note= "N-glycosylation site"
FT Modified-site	215..220
FT	/note= "N-myristoylation site"
FT Modified-site	226..231
FT	/note= "N-myristoylation site"
FT Domain	243..263
FT	/label= Transmembrane_domain
FT Modified-site	243..248
FT	/note= "N-myristoylation site"
FT Modified-site	244..249
FT	/note= "N-myristoylation site"
FT Modified-site	262..267
FT	/note= "N-myristoylation site"
FT Modified-site	296..299
FT	/note= "Casein kinase II phosphorylation site"

PN W0200036102-A2.

XX 22-JUN-2000.
 XX
 PD 01-DEC-1999; 99MO-US28634.
 XX
 PR 16-DEC-1998; 98US-0112851.
 PR 16-DEC-1998; 98US-0113145.
 PR 22-DEC-1998; 98US-0113511.
 PR 12-JAN-1999; 99US-0115558.
 PR 12-JAN-1999; 99US-0115565.
 PR 12-JAN-1999; 99US-0115733.
 PR 09-FEB-1999; 99US-0119341.
 PR 10-FEB-1999; 99US-0119537.
 PR 12-FEB-1999; 99US-0119965.
 PR 02-JUN-1999; 99WO-US12252.

PA (GETH) GENENTECH INC.

XX Borstein D, Desnoyers L, Ferrara N, Fong S, Gao W, Goddard A;
 PI Gurney AL, Pan J, Roy MA, Stewart TA, Tumas D, Watanabe CK;
 PI Wood WI;

DR MPI: 2000-431586/37.
 DR N-PSDB; AAA51265.

XX Isolated nucleic acid molecule encodes a PRO polypeptide which is a
 PT transmembrane polypeptide

PS Claim 1; Fig 14; 154pp; English.

CC This is PRO1868, a putative homologue of A33 antigen, a known
 CC colorectal cancer-associated marker. The invention concerns novel
 CC secreted and transmembrane proteins, designated PRO polypeptides. The

CC cDNA and gene sequences are useful in the recombinant production of PRO
 CC polypeptides, as a hybridization probe to screen libraries to isolate
 CC cDNAs with sequence identity to PRO polypeptides or to map the gene
 CC encoding the PRO polypeptides and analyzing genetic disorders. The
 CC cDNA/gene can also be used to produce transgenic animals useful for the
 CC development and screening of therapeutically useful reagents. They can
 CC also be used in gene therapy, e.g. to replace a defective gene.

XX Sequence 310 AA:

Query Match 100.0%; Score 310; DB 21; Length 310;
 Best Local Similarity 100.0%; Pred. No. 1.7e-295;
 Matches 310; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MALRRPRLRLCARLPDFLLLRGLIGAVNLKSSNRTPVOEFSVELSCITITDSQT 60
 D 1 malrrprlrlcarlpdfflllrrgcllgavnlkssnrtpvgefsvelscitltsqt 60
 QY 61 SDPRIEMKKIQDEQTYVFPDNKIQGLAGRAELIGKTSLKIMWTRDSALYRCEVVAR 120
 D 61 sdprlwmkkldqeqctlyvffdnkiqglagraeligktslkimwtrdsalyrcevar 120
 QY 121 NDRKEIDEIYELTVQKPYTPVCRVPAVPGKMATLHCQESGHRPHYSWRNDVPL 180
 D 121 ndrkeideiyelvtvqkpytpvcrcvpkavpgkmatlhcqeseghrphyswyrndvpl 180
 QY 181 PTDSRANPRFRNSSFHLNSETGLVFTAVHKDSDGQYYCIASNDAGSARCEQEMEYVDL 240
 D 181 ptdsranprfrnssfhltnsetglvtfavhkdsgqyyclasndagsarceeqemeyvdl 240
 QY 241 NIGGIIGVLYLVALLITGLICAVRGRGYFINNKDGESEYKPKGPDGVNRYRTDEEG 300
 D 241 niggiigvlylvallitglcavrrgyfinkkdgeseysknpkpgdgvnyrirtdeeg 300
 QY 301 DFRHKSSEFVI 310
 D 301 dfrhkssfv 310

RESULT 4
 AAM93323
 ID AAM93323 standard; Protein; 310 AA.

XX AC AAM93323;
 XX DT 06-NOV-2001 (first entry)

Human polypeptide, SEQ ID NO: 2845.

Human; full length cDNA; cDNA synthesis; oligo-capping.

OS Homo sapiens.

PN EP1130094-A2.

PD 05-SEP-2001.

PF 07-JUL-2000; 2000EP-0114089.

PR 08-JUL-1999; 99JP-0194486.

PR 11-JAN-2000; 2000JP-0118774.

PR 02-MAY-2000; 2000JP-0183765.

PA (HELI-) HELIX RES INST.

PI Ota T, Nishikawa T, Isogai T, Hayashi K, Ishii S, Kawai Y,
 PI Wakamatsu A, Sugiyama T, Nagai K, Kojima S, Otsuki T, Koga H;

XX WPI; 2001-524255/58.
 XX DR N-PSDB; AAK94243.

PT 830 Primers useful for synthesizing full length cDNA clones and their

PT use in genetic manipulation -

XX Claim 8; SEQ ID NO 2845; 1380bp + sequence listing; English.

PS The invention relates to primers for synthesizing full length cDNA

CC clones. 830 cDNA molecules encoding a human protein have been

CC isolated and nucleotide sequences of 5'- and 3'-ends of the cDNA

CC molecules have been determined. Primers for synthesizing the full length

CC cDNA are useful for clarifying the function of the protein encoded by

CC the cDNA. The full length clones were obtained by construction of full

CC length enriched cDNA libraries that were synthesized by the oligo-capping

CC method. The primers enable the production of the full length cDNA easily

CC without any special methods. The present sequence is a polypeptide

CC Note: The sequence data for this patent did not form part of the printed

CC specification, but was obtained in CD-ROM format directly from EPO.

XX Sequence 310 AA:

Query Match 100.0%; Score 310; DB 22; Length 310;
 Best Local Similarity 100.0%; Pred. No. 1.7e-295;
 Matches 310; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MALRRPRLRLCARLPDFLLLRGLIGAVNLKSSNRTPVOEFSVELSCITITDSQT 60
 D 1 malrrprlrlcarlpdfflllrrgcllgavnlkssnrtpvgefsvelscitltsqt 60
 QY 61 SDPRIEMKKIQDEQTYVFPDNKIQGLAGRAELIGKTSLKIMWTRDSALYRCEVVAR 120
 D 61 sdprlwmkkldqeqctlyvffdnkiqglagraeligktslkimwtrdsalyrcevar 120
 QY 121 NDRKEIDEIYELTVQKPYTPVCRVPAVPGKMATLHCQESGHRPHYSWRNDVPL 180
 D 121 ndrkeideiyelvtvqkpytpvcrcvpkavpgkmatlhcqeseghrphyswyrndvpl 180
 QY 181 PTDSRANPRFRNSSFHLNSETGLVFTAVHKDSDGQYYCIASNDAGSARCEQEMEYVDL 240
 D 181 ptdsranprfrnssfhltnsetglvtfavhkdsgqyyclasndagsarceeqemeyvdl 240
 QY 241 NIGGIIGVLYLVALLITGLICAVRGRGYFINNKDGESEYKPKGPDGVNRYRTDEEG 300
 D 241 niggiigvlylvallitglcavrrgyfinkkdgeseysknpkpgdgvnyrirtdeeg 300
 QY 301 DFRHKSSEFVI 310
 D 301 dfrhkssfv 310

RESULT 5

AAM93905
 ID AAM93905 standard; Protein; 310 AA.

XX AC AAM93905;

XX DT 06-NOV-2001 (first entry)

Human polypeptide, SEQ ID NO: 4051.

Human; full length cDNA; cDNA synthesis; oligo-capping.

OS Homo sapiens.

PN EP1130094-A2.

PD 05-SEP-2001.

PF 07-JUL-2000; 2000EP-0114089.

PR 08-JUL-1999; 99JP-0194486.

PR 11-JAN-2000; 2000JP-0118774.

PR 02-MAY-2000; 2000JP-0183765.

SQ Sequence 310 AA;

Query Match 100.0%; Score 310; DB 22; Length 310;
 Best Local Similarity 100.0%; Pred. No. 1.7e-295;
 Matches 310; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MALRRPRLRCARLPDPFLLLRGCLIGAVNLKSSNRTPVVOEFSEVLSCLITDSQT 60
 Db 1 malrrprrlrcarlpdpfllllfrgcllgavnlkssnrtpvvoefesvelsciltdsq 60
 QY 61 SDPRLEMKKIQDEQTYVFFDNKIQGLAGRAELTGTSLKIMWVTRDSALYCEVVAR 120
 Db 61 sdprlewkkiqdeqtlvyffdnkigqlagraeltgtslkimwvtrdsalyccevar 120
 QY 121 NDRKEIDEIVELTVQKPVTPVCRVPAVPGKMATLHCQESGHPRHPSWRNDVPL 180
 Db 121 ndrkeideiveltvqkpvtpvcrvpavpgkmatlhqeseghprphyswyrndvpl 180
 Db 181 PTDSRANPRFRNSSFHLNSETGTLVFTAVHKDMSGQYYCIASNDAGSARCEQEMEYVDL 240
 Db 181 ptdsrampfrfnssfhlnsetgtlvftavhkdmsgyycciasndagsarceegemeyvdl 240
 QY 241 NIGGIIIGVVLAVLALITLGICAVRGRFYINNKODGESYKMPGKPDGVNYIRTDSEG 300
 Db 241 niggiigvvlavlaalitlgicayrrgyfnnkqdgesyknpgkpdgvnyirtdeeg 300
 QY 301 DFRHKSFEVI 310
 Db 301 dfrhksfvl 310

RESULT 7

AAAB80272
 ID AAB80272 standard; Protein: 310 AA.

AC AAB80272;

XX 24-APR-2001 (first entry)

XX Human PRO1868 protein.

XX Human; PRO: dermatological; antipruritic; cytoprotic; antiinflammatory;
 KW antiparkinsonian nootropic; neuroprotective; vulnerary; caudant;
 KW antiangiogenic; vasotrophic; antiautomatic; antineumatic; cancer;
 KW antiarthritic; antidiabetic; antidiabetic; antidiabetic; diabetes;
 KW ophthalmological; gene therapy; skin disease; gastrointestinal disorder;
 ischaemia; inflammation.

XX Homo sapiens.

XX WO200104311-A1.

XX 18-JAN-2001.

XX 22-FEB-2000; 2000WO-US04414.

XX 07-JUL-1999; 99US-0143048.

XX 26-JUL-1999; 99US-0145698.

XX 28-JUL-1999; 99US-0146222.

XX 08-SEP-1999; 99WO-US20594.

XX 13-SEP-1999; 99WO-US20944.

XX 15-SEP-1999; 99WO-US21090.

XX 15-SEP-1999; 99WO-US21347.

XX 05-OCT-1999; 99WO-US23089.

XX 29-NOV-1999; 99WO-US28214.

XX 30-NOV-1999; 99WO-US28313.

XX 16-DEC-1999; 99WO-US30095.

XX 20-DEC-1999; 99WO-US30911.

XX 20-DEC-1999; 99WO-US30999.

XX 05-JAN-2000; 99WO-US00219.

XX PA (GETH) GENENTECH INC.

XX Ashkenazi AJ, Botstein D, Desnoyers L, Eaton DL, Ferrara N,
 PI Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME, Goddard A,
 PI Godowski PJ, Grimaldi CJ, Gurney AL, Hillan KJ, Kljavin LJ,
 PI Mather JP, Pan J, Paoni NF, Roy MA, Stewart TA, Tumas D,
 PI Williams PM, Wood WI;

XX WPI: 2001-081051/09.
 DR N-PSDB: AAF72433.

PT Sixty one nucleic acids encoding PRO polypeptides which are useful in
 PT the treatment of skin diseases (e.g. psoriasis), cancers (e.g. lung
 PT squamous cell carcinoma) and neurodegenerative diseases (e.g.
 PT Alzheimer's disease) -

XX Claim 1; Fig 124; 393pp; English.

CC The present sequence is one of sixty one novel secreted and
 CC transmembrane PRO polypeptides. The PRO polypeptides are
 CC useful for treating skin diseases (e.g. psoriasis), cancers (e.g. lung
 CC squamous cell carcinoma), gastrointestinal disorders (e.g.
 CC enterocolitis), neurodegenerative diseases (e.g. Alzheimer's disease,
 CC Parkinson's disease), wound repair, cardiovascular disorders (e.g.
 CC endometrial bleeding, angiogenesis, ischaemia such as coronary
 CC ischaemia, atherosclerosis), inflammatory disorders (e.g. asthma,
 CC rheumatoid arthritis, multiple sclerosis), infertility, AIDS and
 CC diabetes and retinal disorders such as retinitis pigmentosa.
 CC The PRO nucleic acids have applications in molecular biology, including
 CC use as hybridization probes, and in chromosome and gene mapping.

XX Sequence 310 AA;

Query Match 100.0%; Score 310; DB 22; Length 310;
 Best Local Similarity 100.0%; Pred. No. 1.7e-295;
 Matches 310; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MALRRPRLRCARLPDPFLLLRGCLIGAVNLKSSNRTPVVOEFSEVLSCLITDSQT 60
 Db 1 malrrprrlrcarlpdpfllllfrgcllgavnlkssnrtpvvoefesvelsciltdsq 60
 QY 61 SDPRLEMKKIQDEQTYVFFDNKIQGLAGRAELTGTSLKIMWVTRDSALYCEVVAR 120
 Db 61 sdprlewkkiqdeqtlvyffdnkigqlagraeltgtslkimwvtrdsalyccevar 120
 QY 121 NDRKEIDEIVELTVQKPVTPVCRVPAVPGKMATLHCQESGHPRHPSWRNDVPL 180
 Db 121 ndrkeideiveltvqkpvtpvcrvpavpgkmatlhqeseghprphyswyrndvpl 180
 QY 181 PTDSRANPRFRNSSFHLNSETGTLVFTAVHKDMSGQYYCIASNDAGSARCEQEMEYVDL 240
 Db 181 ptdsrampfrfnssfhlnsetgtlvftavhkdmsgyycciasndagsarceegemeyvdl 240
 QY 241 NIGGIIIGVVLAVLALITLGICAVRGRFYINNKODGESYKMPGKPDGVNYIRTDSEG 300
 Db 241 niggiigvvlavlaalitlgicayrrgyfnnkqdgesyknpgkpdgvnyirtdeeg 300
 QY 301 DFRHKSFEVI 310
 Db 301 dfrhksfvl 310

RESULT 8

AAAB80383
 ID AAB80383 standard; Protein: 310 AA.

XX AAB80383;

XX 24-APR-2001 (first entry)

XX Secreted protein encoded by gene #13.

XX Secreted protein; human; autoimmune; hyperproliferation;

KW 5' cardiovascular; cerebrovascular; infection; food.
XX
XX OS Homo sapiens.
XX
XX PN WO200107459-A1.
XX
XX PD 01-FEB-2001.
XX
XX PE 20-JUL-2000; 2000WO-US19735.
XX
XX PR 23-JUL-1999; 99US-0145220.
XX
XX PA (HUMA-) HUMAN GENOME SCI INC.
XX
XX PI Rosen CA, Ruben SM, Ebner R, Duan RD, Ni J, Soppet DR, Moore PA;
XX PI Shi Y, Lafleur DW, Olsen HS, Birse CE, Komatsoulis GA;
XX DR WPI; 2001-123261/13.
XX
XX PT New isolated nucleic acid encoding 29 secreted proteins, for
XX PT diagnosing, preventing and treating e.g. autoimmune,
XX PT hyperproliferative, cardiovascular, and ocular diseases or disorders
XX PT and microorganism infections
XX
XX PS Claim 11: Page 538-539; 601pp; English.
XX
XX CC The present invention relates to 29 human secreted proteins. The
XX CC invention is used to prevent autoimmune diseases e.g. rheumatoid
XX CC arthritis, hyperproliferative disorders e.g. neoplasms of the
XX CC breast or liver, cardiovascular disorders e.g. cardiac arrest,
XX CC cerebrovascular disorders e.g. cerebral ischemia, angiodenesis,
XX CC nervous system disorders e.g. Alzheimer's disease, infections
XX CC caused by bacteria, viruses and fungi and ocular disorders e.g.
XX CC corneal infection. Also used in food preparations.
XX
XX SQ Sequence 310 AA;
SQ

Query Match 100.0%; Score 310; DB 22; Length 310;
Best Local Similarity 100.0%; Pred. No. 1.7e-295;
Matches 310; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MALRRPRLRLCARLPDFLLFRGCLIGAVNLKSNRTPVQVEFESVELSCIITDSOT 60
DB 1 malrrprrlrlcarlpdfflllfrgcllgavnlksnrtprvqgefesvelscitdsqt 60
QY 61 SDPRIEMKKIODEQTTVFPDNKIOGDLAGRAELIGKTSKIMWNTTRDSALYRCEVVAR 120
DB 61 sdprlwmkklidqetctyffdnkligdlaagraelilgktsklmwnttrdsalyrcevar 120
QY 121 NDRKEIDIVIELTVQVPRVPCVPRKAVPVGKMATLHCQSEGHPRPHYSWYRNDVPL 180
DB 121 ndrkeideivleltvqvprpvcprkavpvgkmatlhqgesghprphyswyrndvpl 180
QY 181 PTDSRANPRFNSSFHLSSETGLVFTAVHKDSCGYCIASNDAGSARCEQEMEYVDL 240
DB 181 ptdsranprfnssfhlssetglvftavhkddsgyyciasndagsarceqemevydl 240
QY 241 NIGGIGLVLVAVLALITIGICAYRGRGYFINNKQGESYKNGKPDGVNRYITDEEG 300
DB 241 niggligvlvavlaalilgicccayrrgyfinnkqgesyknpgkpdgvnyirtdeeg 300
QY 301 DFRHKSFFVI 310
DB 301 dfrhksffvi 310

RESULT 9
AAB80408
ID AAB80408 standard; protein: 310 AA.
XX
XX AAB80408;
XX

DT 24-APR-2001 (first entry)
XX
XX DE Secreted protein encoded by gene #38.
XX
XX KW Secreted protein; human; autoimmune; hyperproliferation;
XX KW Cardiovascular; cerebrovascular; infection; food.
XX
XX OS Homo sapiens.
XX
XX PN WO200107459-A1.
XX
XX PD 01-FEB-2001.
XX
XX PE 20-JUL-2000; 2000WO-US19735.
XX
XX PR 23-JUL-1999; 99US-0145220.
XX
XX PA (HUMA-) HUMAN GENOME SCI INC.
XX
XX PI Rosen CA, Ruben SM, Ebner R, Duan RD, Ni J, Soppet DR, Moore PA;
XX PI Shi Y, Lafleur DW, Olsen HS, Birse CE, Komatsoulis GA;
XX DR WPI; 2001-123261/13.
XX
XX PT New isolated nucleic acid encoding 29 secreted proteins, for
XX PT diagnosing, preventing and treating e.g. autoimmune,
XX PT hyperproliferative, cardiovascular, and ocular diseases or disorders
XX PT and microorganism infections
XX
XX PS Claim 11: Page 557-558; 601pp; English.
XX
XX CC The present invention relates to 29 human secreted proteins. The
XX CC invention is used to prevent autoimmune diseases e.g. rheumatoid
XX CC arthritis, hyperproliferative disorders e.g. neoplasms of the
XX CC breast or liver, cardiovascular disorders e.g. cardiac arrest,
XX CC cerebrovascular disorders e.g. cerebral ischemia, angiodenesis,
XX CC nervous system disorders e.g. Alzheimer's disease, infections
XX CC caused by bacteria, viruses and fungi and ocular disorders e.g.
XX CC corneal infection. Also used in food preparations.
XX
XX SQ Sequence 310 AA;
SQ

Query Match 100.0%; Score 310; DB 22; Length 310;
Best Local Similarity 100.0%; Pred. No. 1.7e-295;
Matches 310; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MALRRPRLRLCARLPDFLLFRGCLIGAVNLKSNRTPVQVEFESVELSCIITDSOT 60
DB 1 malrrprrlrlcarlpdfflllfrgcllgavnlksnrtprvqgefesvelscitdsqt 60
QY 61 SDPRIEMKKIODEQTTVFPDNKIOGDLAGRAELIGKTSKIMWNTTRDSALYRCEVVAR 120
DB 61 sdprlwmkklidqetctyffdnkligdlaagraelilgktsklmwnttrdsalyrcevar 120
QY 121 NDRKEIDIVIELTVQVPRVPCVPRKAVPVGKMATLHCQSEGHPRPHYSWYRNDVPL 180
DB 121 ndrkeideivleltvqvprpvcprkavpvgkmatlhqgesghprphyswyrndvpl 180
QY 181 PTDSRANPRFNSSFHLSSETGLVFTAVHKDSCGYCIASNDAGSARCEQEMEYVDL 240
DB 181 ptdsranprfnssfhlssetglvftavhkddsgyyciasndagsarceqemevydl 240
QY 241 NIGGIGLVLVAVLALITIGICAYRGRGYFINNKQGESYKNGKPDGVNRYITDEEG 300
DB 241 niggligvlvavlaalilgicccayrrgyfinnkqgesyknpgkpdgvnyirtdeeg 300
QY 301 DFRHKSFFVI 310
DB 301 dfrhksffvi 310

RESULT 10

AAB80409
ID AAB80409 standard; protein; 310 AA.
XX
AC AAB80409;
XX
DT 24-APR-2001 (first entry)
XX
DE Secreted protein encoded by gene #39.
XX
KW Secreted protein; human; autoimmune; hyperproliferation;
KW cardiovascular; cerebrovascular; infection; food.
XX
OS Homo sapiens.
PN MO200107459-A1.
XX
PD 01-FEB-2001.
XX
PR 20-JUL-2000; 2000MO-US19735.
XX
XX 23-JUL-1999; 99US-0145220.
XX (HUMA-) HUMAN GENOME SCI INC.
PA Rosen CA, Ruben SM, Ebner R, Duan RD, Ni J, Soppet DR, Moore PA;
PI Shi Y, Lafleur DW, Olsen HS, Birse CE, Komatsoulis GA;
XX WPI: 2001-123261/13.
XX
XX New isolated nucleic acid encoding 29 secreted proteins, for
PT diagnosing, preventing and treating e.g. autoimmune,
PT hyperproliferative, cardiovascular, and ocular diseases or disorders
PT and microorganism infections -
XX
PS Claim 11: Page 559-560; 601pp; English.
XX
XX The present invention relates to 29 human secreted proteins. The
CC invention is used to prevent autoimmune diseases e.g. rheumatoid
CC arthritis, hyperproliferative disorders e.g. neoplasms of the
CC breast or liver, cardiovascular disorders e.g. cardiac arrest,
CC cerebrovascular disorders e.g. cerebral ischemia, angiogenesis,
CC nervous system disorders e.g. Alzheimer's disease, infections
CC caused by bacteria, viruses and fungi and ocular disorders e.g.
CC corneal infection. Also used in food preparations.
CC
XX
XX Sequence 310 AA;
SQ
Query Match 100.0%; Score 310; DB 22; Length 310;
Best Local Similarity 100.0%; Pred. No. 1.7e-295;
Matches 310; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX 1 MAERPRRLRLCARLPDFLLFRGLIGAVNLKSSNRTPVVOEFSEVSLCITTSQT 60
DB 1 mairtrprlrlcarlpdflifllfrgcligavnlkssnrtpvvoefesvelscitltsqt 60
XX
XX 61 SDRRIEKKIODEQTVYVFPDNKIQDLAGRAELIGTSKIMVTRRDSALYCEVVAR 120
DB 61 sdrriekkiodeqtvvfpdnkiqdglaagraellgtsklmvtrrdsalyccevar 120
XX
XX 121 NDKREIDELIYELTVQKPTPVCRVKAHPVGMATLHCQESGHRPHYSWRNDVPL 180
DB 121 ndkreidelilyeltvqkptpvcrvkavpvgmatlhqeseghrphyswyrndvpl 180
XX
XX 121 PTDSEANRPRNSSEFHLNSETGLVFTAVHKDSDGYCTASNDAGSARCEOEEMEVYDL 240
DB 181 ptdseanrprnssefhlensegtlvftavhkdsdgyctasndagsarceogemevydl 240
XX
XX 241 NIGGIIGGVAVLAVLALITLGICAVRGRFYINNKODGESYKMGKPGDGVNVRTDEG 300
DB 241 niggiiggvavlvallitlgicavrrgyfinkkdgesyknpgdpdgvnvrtddeg 300
XX
XX 301-DFRHKSSFVI 310

DB 301 dfrhkssfvi 310
XXXXXXXXXX
RESULT 11
ID AAB38333 standard; Protein; 311 AA.
XX
AC AAB38333;
XX
DT 31-JAN-2001 (first entry)
XX
DE Human secreted protein encoded by gene 13 clone HAPSA79.
XX
KW Immunosuppressive; antiarthritic; antirheumatic; antiproliferative;
KW cytostatic; cardiant; vasotropic; cerebroprotective; neuroprotective;
KW nootropic; antibacterial; virocidic; fungicide; optalmallogical; human;
KW vulnerary; gene therapy; infection; secreted protein.
XX
OS Homo sapiens.
PN MO200061623-A1.
XX
PD 19-OCT-2000.
XX
PR 06-APR-2000; 2000MO-US08979.
XX
PR 09-APR-1999; 99US-0128693.
XX 26-APR-1999; 99US-0130991.
XX (HUMA-) HUMAN GENOME SCI INC.
PA Ruben SM, Ni J, Komatsoulis GA, Rosen CA, Soppet DR, Shi Y;
PI Lafleur DW, Olsen HS, Ebner R, Florence KA, Moore PA, Birse CE;
XX Young PE;
XX WPI: 2000-647418/62.
XX
XX New nucleic acid molecules encoding 62 human secreted proteins for
PT diagnosing, preventing, treating or ameliorating medical conditions and
PT used as food additives or preservatives -
XX
XX Claim 11: Page 603-604; 716pp; English.
XX
XX Sequences AAB38321-B38396 represent the amino acid sequences of 62
CC human secreted proteins encoded by the genes AAC69512-C69587. The genes
CC and proteins are useful for preventing, ameliorating or treating medical
CC conditions, e.g. by protein or gene therapy. The genes are isolated from
CC a range of human tissues disclosed in the specification. The nucleic
CC acids, proteins, antibodies and (ant)agonists are useful in the
CC diagnosis, treatment and prevention of: (a) autoimmune diseases e.g.
CC rheumatoid arthritis; (b) hyperproliferative disorders e.g. neoplasms
CC of the breast or liver; (c) cardiovascular disorders e.g. cardiac
CC arrest; (d) cerebrovascular disorders e.g. cerebral ischemia; (e)
CC angiogenesis; (f) nervous system disorders e.g. Alzheimer's disease; (g)
CC infections caused by bacteria, viruses and fungi; and (h) ocular
CC disorders e.g. corneal infection. The polypeptides can also be used to
CC aid wound healing and epithelial cell proliferation, to prevent skin
CC aging due to sunburn, to maintain organs before transplantation, for
CC supporting cell culture of primary tissues, to regenerate tissues and in
CC chemotaxis.
XX
XX Sequence 311 AA;
SQ
Query Match 100.0%; Score 310; DB 21; Length 311;
Best Local Similarity 100.0%; Pred. No. 1.7e-295;
Matches 310; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX 1 MAERPRRLRLCARLPDFLLFRGLIGAVNLKSSNRTPVVOEFSEVSLCITTSQT 60
DB 1 mairtrprlrlcarlpdflifllfrgcligavnlkssnrtpvvoefesvelscitltsqt 60


```

QY 61 SDPRLEMKRIODEQTTVFFDNKIOGDLGRAEIIKTSIKIWNVTRDPSALYRCEVVAR 120
    |||
DB 61 sdprlewkkiqdeqttvffdnkigddlagreellgtsklkwnvrrisalyrcevar 120
QY 121 NDRKEIDEIVIELTVQVKRVTVCYKRVKAVPVGKMATLHCQSEGHPRPHYSWYRNDVPL 180
    |||
DB 121 ndrkeideivieltvqvkrcvcpkavpvgkmatlhcqeseghprphyswyrndvpl 180
QY 181 PTDSRANPRFRNSSPFLNSETGTLVFTAVHKDSSGOYCIASNDASARCEQEMEYVDL 240
    |||
DB 181 pcdsranprfrnssflnsetgltvtavhkddsgyyciasndagsarceeqemeyvd 240
QY 241 NIGGIIGVLYVLAVALTLTGICCAVRRGYFINNKODESYKPNKPGDVNYIRTDEEG 300
    |||
DB 241 niggiiigvlyvvaltalitlgicceayrrgyflnnkqdesyknpgkpdgynyirtdeeg 300
QY 301 DFRHKSSEFYI 310
    |||
DB 301 dfrhkssefvi 310
    |||
QUT 12
AAB383
ID AAB38383 standard; Protein; 311 AA.
AC AAB38383;
XX
XX
DT 31-JAN-2001 (first entry)
XX
DE Human secreted protein encoded by gene 13 clone HAPSA79.
XX
XX Immunosuppressive; antiarthritic; antirheumatic; antiproliferative;
XX cytosolic; cardiac; vasotropic; cerebroprotective; neuroprotective;
XX neurotropic; antibacterial; virucide; fungicide; optalmalogical; human;
XX vulnerable; gene therapy; infection; secreted protein.
XX
XX Homo sapiens.
XX
XX WO200061623-A1.
XX
XX 19-OCT-2000.
XX
XX 06-APR-2000; 2000WO-US08979.
XX
XX 09-APR-1999; 99US-0128693.
XX
XX 26-APR-1999; 99US-0130991.
XX
XX (HUMA-) HUMAN GENOME SCI INC.
XX
PI Ruben SM, Ni J, Komatsoulis GA, Rosen CA, Soppet DR, Shi Y;
DR Lafleur DW, Olsen HS, Ebner R, Florence KA, Moore PA, Birse CE;
XX Young PE;
XX
XX WPI: 2000-647418/62.
XX
XX Claim 11; Page 642-643; 716pp; English.
XX
XX Sequences AAB38321-B38396 represent the amino acid sequences of 62
XX human secreted proteins encoded by the genes AAC69512-C69587. The genes
XX and proteins are useful for preventing, ameliorating or treating medical
XX conditions; e.g. by protein or gene therapy. The genes are isolated from
XX a range of human tissues disclosed in the specification. The nucleic
XX acids, proteins, antibodies and (ant)agonists are useful in the
XX diagnosis, treatment and prevention of: (a) autoimmune diseases e.g.
XX rheumatoid arthritis; (b) hyperproliferative disorders e.g. neoplasms
XX of the breast or liver; (c) cardiovascular disorders e.g. cardiac
XX arrest; (d) cerebrovascular disorders e.g. cerebral ischemia; (e)
XX angiogenesis; (f) nervous system disorders e.g. Alzheimer's disease; (g)
XX infections caused by bacteria, viruses and fungi; and (h) ocular

```

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CC disorders e.g. corneal infection. The polypeptides can also be used to
CC aid wound healing and epithelial cell proliferation, to prevent skin
CC aging due to sunburn, to maintain organs before transplantation, for
CC supporting cell culture of primary tissues, to regenerate tissues and in
CC chemotaxis.
CC
SQ Sequence 311 AA:
Query Match 100.0%; Score 310; DB 21; Length 311;
Best Local Similarity 100.0%; Pred. No. 1,76-295;
Matches 310; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MALRPPRIILCARLPDFLLILFRGLIGAVNLKSSNRPVQEPFESLCTITDSOT 60
DB 1 malrrppriilcarlpdflililfrgcllgavnlkssnrrpvgesvslctitdsqt 60
QY 61 SDPRLEMKRIODEQTTVFFDNKIOGDLGRAEIIKTSIKIWNVTRDPSALYRCEVVAR 120
    |||
DB 61 sdprlewkkiqdeqttvffdnkigddlagreellgtsklkwnvrrisalyrcevar 120
QY 121 NDRKEIDEIVIELTVQVKRVTVCYKRVKAVPVGKMATLHCQSEGHPRPHYSWYRNDVPL 180
    |||
DB 121 ndrkeideivieltvqvkrcvcpkavpvgkmatlhcqeseghprphyswyrndvpl 180
QY 181 PTDSRANPRFRNSSPFLNSETGTLVFTAVHKDSSGOYCIASNDASARCEQEMEYVDL 240
    |||
DB 181 pcdsranprfrnssflnsetgltvtavhkddsgyyciasndagsarceeqemeyvd 240
QY 241 NIGGIIGVLYVLAVALTLTGICCAVRRGYFINNKODESYKPNKPGDVNYIRTDEEG 300
    |||
DB 241 niggiiigvlyvvaltalitlgicceayrrgyflnnkqdesyknpgkpdgynyirtdeeg 300
QY 301 DFRHKSSEFYI 310
    |||
DB 301 dfrhkssefvi 310
    |||
DB
RESULT 13
AAB38384
ID AAB38384 standard; Protein; 311 AA.
XX
XX AAB38384;
XX
XX
XX 31-JAN-2001 (first entry)
XX
XX Human secreted protein encoded by gene 13 clone HAPSA79.
XX
XX Immunosuppressive; antiarthritic; antirheumatic; antiproliferative;
XX cytosolic; cardiac; vasotropic; cerebroprotective; neuroprotective;
XX neurotropic; antibacterial; virucide; fungicide; optalmalogical; human;
XX vulnerable; gene therapy; infection; secreted protein.
XX
XX Homo sapiens.
XX
XX WO200061623-A1.
XX
XX 19-OCT-2000.
XX
XX 06-APR-2000; 2000WO-US08979.
XX
XX 09-APR-1999; 99US-0128693.
XX
XX 26-APR-1999; 99US-0130991.
XX
XX (HUMA-) HUMAN GENOME SCI INC.
XX
PI Ruben SM, Ni J, Komatsoulis GA, Rosen CA, Soppet DR, Shi Y;
DR Lafleur DW, Olsen HS, Ebner R, Florence KA, Moore PA, Birse CE;
XX Young PE;
XX
XX WPI: 2000-647418/62.
XX
XX New nucleic acid molecules encoding 62 human secreted proteins for

```

Pt			diagnosing, preventing, treating or ameliorating medical conditions and used as food additives or preservatives -		
Pn					
Px					
Px			Claim 11; Page 643-644; 716pp; English.		
Cc	AAB83931-A38396		represent the amino acid sequences of 62		
Cc	human secreted proteins encoded by the genes AAG69512-C69587. The genes				
Cc	and proteins are useful for preventing, ameliorating or treating medical				
Cc	conditions, e.g. by protein or gene therapy. The genes are isolated from				
Cc	a range of human tissues disclosed in the specification. The nucleic				
Cc	acids, proteins, antibodies and (ant)agonists are useful in the				
Cc	diagnosis, treatment and prevention of:	(a)	autoimmune diseases e.g.,		
Cc	rheumatoid arthritis;	(b)	hyperproliferative disorders e.g., neoplasms		
Cc	of the breast or liver;	(c)	cardiovascular disorders e.g., cardiac		
Cc	arrest;	(d)	cerebrovascular disorders e.g., cerebral ischemia;	(e)	
Cc	angiogenesis;	(f)	nervous system disorders e.g., Alzheimer's disease;	(g)	
Cc	infections caused by bacteria, viruses and fungi;	(h)	ocular		
Cc	disorders e.g., corneal infection. The polypeptides can also be used to				
Cc	aid wound healing and epithelial cell proliferation, to prevent skin				
Cc	aging due to sunburn, to maintain organs before transplantation, for				
Cc	supporting cell culture of primary tissues, to regenerate tissues and in				
Cc	chemotaxis.				
SQ					
Px	Sequence	311 AA;			
Query Match		100.0%; Score 310; DB 21; Length 311;			
Best Local Similarity	100.0%;	Pred. No. 1,7e+295;			
Matches 310;	Conservative	0; Mismatches	0; Indels	0; Gaps	0;
OY	1 MALRRPRLRCLARLPDFLLFLFRGCLIGAVNLKSNFTPVVOEFSEVLSCTITDSQT	60			
Db	1 MLIRPPRIPLRAIPDFFLIIILFGCLIAVLKSNMTPVVGESFESVELSCILLDTGT	60			
OY	61 SDPRIEMKKIOEOOTTYVEFDNKGIDLAGRAEITGGTSLKTIMANTRRRSALYRCRVVAR	120			
Db	61 SGPRIELWKIKDEQGLTYVFANKIGDGDAEGREIIGKSLEKWNYTRDISALYRCRVAR	120			
OY	121 NDRKEIDEIVIELTVQVKRPVCVRPKAPVPYGMATLIQOESGHPRPHYSWRYNDVPL	180			
Db	121 NDRIKDELIVIELTVGVKVPCVCRPAKVPYGMAETLCHGESGEHPRHYSWYINDVPI	180			
OY	181 PIDSANRPFRRSSPHLNSETGLVTFAVHKDDSGCYTIASNDGASACEODEMEHYDL	240			
Db	181 PDISAMPRIIRFSFIHLISEGLYIFVAHKDDSGYYCIAISNDAGSARCEEQEMEUYDI	240			
OY	241 NGGIIGCVLVVALTLTGICAYARRGYVINNKCODESKKNKGRPGVNVYRTDEBG	300			
Db	241 NIIGIIIGVYLIVLAIALITLTIGCAAYRRYFINNKKDGSFKNPBKPDGVNYITDDEG	300			
OY	301 DFRHKSFPVI	310			
Db	301 DFRHKSFPVI	310			
ID	AAB80431 standard; peptide; 339 AA.				
AC	AAB80431;				
DX	24-APR-2001 (first entry)				
DE	Gene #13 associated peptide #1.				
KX	Secreted protein; human; autoimmune; hyperproliferation;				
KX	cardiovascular; cerebrovascular; infection; food.				
OS	Homo sapiens.				
PN	WO200107459-A1.				
PD	01-FEB-2001.				

Query Match	100.0%	Score 310;	DB 22;	Length 339;
Best Local Similarity	100.0%	Pred. No. 1.8e-295;		
Matches 310;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
QY 1 MALRRPRLRCARLDPDELLIFEGCCLIGAVNKKSSNRTPVQGEFSEVELSCITTSQGT 60				
DB 30 MALRPPLRLCARLPDIFLILITFGCLIGAVNKKSNRTPVQGEFSEVELSCITLDSGT 89				
QY 61 SDPRLEMKKIQDEQTTYFFFDNKKIGDDLAGRAEILIGKSLKIMWYTRDSALYRCEVVAR 120				
DB 90 SEPRIEWKKIQDEQCTLYFFDNKKIGDLAGRAELIGKSLKIMWYTRDSALYRCEVVAR 149				
QY 121 NDRKEIDELIVLEIVQVKPVPVCHVPAVYGVGKMATLHCQESGHPRPHTSWRNDVPL 180				
DB 150 NARKIDELIVLELTQVVKPVPVCHVPAVYGVGKMATLHCQESGHPRPHTSWRNDVPL 209				
QY 181 PFDSDANPRFRNSPHLMSSETGVFTVAVHKDDSGQYCIASNAGSARCEQDEVEYDL 240				
DB 210 PFDSDANPRFRNSPHLMSSETGVFTVAVHKDDSGQYCIASNAGSARCEQDEVEYDL 269				
QY 241 NIGGIIGVGLVLAVALITTLGICCAVGRGYFINNKKDQGESYKPKGKPDGVNYIRTDDEG 300				
DB 270 NIGGIIGVGLVLAVALITTLGICCAVGRGYFINNKKDQGESYKPKGKPDGVNYIRTDDEG 329				
QY 301 DERRHSSPYI 310				
DB 330 DTRHSSPYI 339				
RESULT 15				
ID AAY96294	standard; protein: 310 AA.			
AC AAY96294;				
DT 16-AUG-2000	(first entry)			
DE Human IGFAH-6	immunoglobulin.			
XX Human; immunoglobulin; IGFAH-6; IGFAH; immune disorder; cancer;				
XX Infection; inflammation; haematopoiesis; AIDS; allergy.				
XX				

OS Homo sapiens.

XX Key Location/Qualifiers

FT Peptide 1..30

FT Protein /label= signal_peptide

FT Protein 31..310

FT Domain /label= IGFAM-6

FT Domain 46..117

FT Domain /label= Ig-domain

FT Domain 153..221

FT Domain /label= Ig_domain

FT Domain 238..260

FT Domain /label= transmembrane_domain

XX MO200029563-A2.

XX 25-MAY-2000.

XX 19-NOV-1999; 99WO-US27566.

XX 19-NOV-1998; 99US-0113635.

XX 22-DEC-1998; 98US-0113635.

XX 07-APR-1999; 99US-0128194.

XX (INCYTE PHARM INC.

XX Yue H, Tang YT, Corley NC, Guegler RJ, Gorgone GA, Baughn MR;

PI Lu DM, Lai P, Hillman JL, Yang J;

XX WPI: 2000-387796/33.

DR N-PSDB: AAA27386.

XX Immunoglobulin superfamily proteins, the agonist and antagonist of the

PT protein is useful for preventing and treating disorders associated with

PT altered levels of the protein such as cancer, immune system disorders

PT

PT Claim 1; Page 82-83; 105pp; English.

XX The present sequence is the human immunoglobulin superfamily protein

CC IGFAM-6. Its gene was isolated from a cDNA library of leg

CC tissue. It is expressed in reproductive, nervous and

CC cardiovascular tissue, where cancer and inflammation are common. The

CC gene, protein, its antibodies, agonists and antagonists are suitable for

CC diagnosing and treating many diseases, including cancer, immune system

CC disorders (such as inflammation, AIDS, allergies, anemia, Crohn's

CC arteriosclerosis, asthma, atherosclerosis, cholecystitis, Crohn's

CC disease, diabetes mellitus, emphysema, Graves' disease, hepatitis,

CC multiple sclerosis, psoriasis, rheumatoid arthritis, scleroderma,

CC systemic lupus erythematosus and ulcerative colitis), complications of

CC cancer, haemodialysis and extracorporeal circulation, trauma and

CC hematopoietic cancer (such as leukaemia) and infections caused by

CC bacteria, viruses, fungi or parasites.

XX

XX Sequence 310 AA:

SO

Query Match 67.4%; Score 209; DB 21; Length 310;

Best Local Similarity 99.7%; Pred. No. 1.8e-196;

Matches 309; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 1 MALRPPRLRCARLPDFLLFRGCLIGAVNLKSNRTPVQEFESVLSCTITDSOT 60

DB 1 malrrpprlrcarlpdffffllfrgcllgavnlksnrtpvqefesvlsctitdsqt 60

OY 61 SDPRIEMKKIODEQTTFVFPDNKIOGDLGRAEILGKTSLSKIMWNTRRDSALYRCEVVAR 120

DB 61 sdpriemkkideqcttffvfpdnkiogdlgraelilgktslskimwntrrdsalyrcevar 120

OY 121 NDRKIDELIVELTVOVPRPVCRKAVPVYKMATLHCOSSECHPRPHYSWYRNDVPL 180

DB 121 ndrkeideliveltvovprpvcrkavpvymatlhcosesghprphyswyndvpl 180

OY 181 PTDSRANRFRNSSEFLNSETGLTFAVHRDSCGYCIAISNDGARSCEOEEMEVYDL 240

DB 181 ptdsranrfrnssseflnsetgltfavhrdscgyciaisndgarsceoeemeydl 240

OY 241 NIGGIIGVLVLAVALITLIGICAVRRGYRINKQDESKNPKRGDGVNYIRFTDEEG 300

DB 241 niggiigvlvavallitligicavrrgyrinlkqdesknpgkdgvnyirfdeeg 300

OY 301 DERHKSFVI 310

DB 301 derhksfvi 310

RESULT 16

AAB39254

ID AAB39254 standard; Protein: 285 AA.

AC AAB39254;

XX 02-FEB-2001 (first entry)

DE Human secreted protein sequence encoded by gene 15 SP0 ID NO:134.

XX Human; secreted protein; immunosuppressive; antiarthritic; antirheumatic;

KW antiproliferative; cytostatic; cardiant; vasotropic; cerebroprotective;

KW nootropic; neuroprotective; antibacterial; virucide; fungicide; neoplasm;

KW ophthalmological; autoimmune disease; rheumatoid arthritis; anglogenesis;

KW hyperproliferative disorder; cardiovascular disorder; infection;

KW cerebrovascular disorder; nervous system disorder; ocular disorder;

KW wound healing; chemotaxis.

XX Homo sapiens.

OS

XX MO200056754-A1.

XX 28-SEP-2000.

XX 16-MAR-2000; 2000WO-US06792.

XX 19-MAR-1999; 99US-0125362.

XX 10-DEC-1999; 99US-0169980.

XX (HUMA-) HUMAN GENOME SCI INC.

PI Rosen GA, Ruben SM, Komatsoulis G;

XX WPI: 2000-579483/54.

DR N-PSDB: AAC74237.

DR Isolated nucleic acid molecule encoding a human secreted protein is

PT used in preventing, treating or ameliorating a medical condition -

PT

PT Disclosure: Page 32; 434pp; English.

XX The polynucleotide sequences given in AAC74223-C74279 encode the human

CC secreted proteins represented in AAB39179-B39226. Sequences

CC AAB39227-B39308 are alternative proteins encoded by the genes, and also

CC protein sequences with which they share homology. The proteins have

CC activities based on the tissues and cells in which they are expressed.

CC Examples of activities include: immunosuppressive; antiarthritic;

CC antirheumatic; antiproliferative; cytostatic; cardiant; vasotropic;

CC cerebroprotective; nootropic; neuroprotective; antibacterial; virucide;

CC fungicide; and ophthalmological. The human secreted proteins,

CC polynucleotides, antagonists and agonists of the invention may be useful

CC in the treatment, prevention, and/or diagnosis of various disease,

CC disorders and conditions such as autoimmune diseases e.g. rheumatoid

CC arthritis, hyperproliferative disorders e.g. neoplasms of the breast or

CC liver, cardiovascular disorders e.g. cardiac arrest, cerebrovascular

CC disorders e.g. cerebral ischaemia, anglogenesis, nervous system disorders

CC e.g. Alzheimer's disease, infections caused by bacteria, viruses and

CC fungi and ocular disorders e.g. corneal infection. The polypeptides can

CC also be used to aid wound healing and epithelial cell proliferation, to

CC regenerate tissues, maintain organs before transplantation, in

CC chemotaxis and as a food additive or preservative e.g. to increase
CC storage capabilities. Sequences AAC74214-C74222 and AAB39178 are used
CC during the isolation and characterisation of the genes of the invention.
XX

SO Sequence 285 AA:

Query Match 51.9%; Score 161; DB 21; Length 285;
Best Local Similarity 100.0%; Pred. No. 2e-149;
Matches 161; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 150 VVPVKMATLTCQSESGRPHRYSWYRNDVLPPTDSRANPRFRNSFHLNSETGLVFTAV 209
Db 125 vvpvkmatlncqeseghprhyswyrndvlpptdsranprfrnsfhlntsetglvftav 184
QY 210 HKDDSGGYCIASNDAGSARCEOEEMEVYDLNIGITIGVLYVLAVALITLIGCCAYRR 269
Db 185 hkddsggyciasadagsarceogemevylndlgitigvlyvavlaialitligccayrr 244
Db 270 GYFINNKQDESYKPNKPGDGVNVRTDEGDFRHKSSFVY 310
245 gyfinnkqdesyknpgkpdgvnyirtdeegdfhksfvl 285

RESULT 17

ABG04645
ID ABG04645 standard; Protein; 291 AA.

XX ABG04645;

DT 13-FEB-2002 (first entry)

DE Novel human diagnostic protein #4636.

KW Human: chromosome mapping; gene mapping; gene therapy; forensic;
KW food supplement; medical imaging; diagnostic; genetic disorder.

XX Homo sapiens.

PN WO200175067-A2.

PD 11-OCT-2001.

PF 30-MAR-2001; 2001WO-US08631.

PR 31-MAR-2000; 2000US-0540217.

PR 23-AUG-2000; 2000US-0649167.

(HYSE-) HYSEQ INC.

PI Drmanac RT, Liu C, Tang YT;

DR WPI: 2001-639362/73.

DR N-PSDB; AAS68832.

PT New isolated polynucleotide and encoded polypeptides, useful in
PT diagnostics, forensics, gene mapping, identification of mutations
PT responsible for genetic disorders or other traits and to assess
PT biodiversity

PS Claim 20: SEQ ID No 35004; 103pp; English.

XX The invention relates to isolated polynucleotide (I) and
CC polypeptide (II) sequences. (I) is useful as hybridisation probes,
CC polymerase chain reaction (PCR) primers, oligomers, and for chromosome
CC and gene mapping, and in recombinant production of (II). The
CC polynucleotides are also used in diagnostics as expressed sequence tags
CC for identifying expressed genes. (I) is useful in gene therapy techniques
CC to restore normal activity of (II) or to treat disease states involving
CC (II). (II) is useful for generating antibodies against it, detecting or
CC quantitating a polypeptide in tissue, as molecular weight markers and as
CC a food supplement. (II) and its binding partners are useful in medical
CC imaging of sites expressing (II). (I) and (II) are useful for treating

CC disorders involving aberrant protein expression or biological activity.
CC The polypeptide and polynucleotide sequences have applications in
CC diagnostics, forensics, gene mapping, identification of mutations
CC responsible for genetic disorders or other traits to assess biodiversity
CC and to produce other types of data and products dependent on DNA and
CC amino acid sequences. ABG00010-ABG30377 represent novel human
CC diagnostic amino acid sequences of the invention.
CC Note: The sequence data for this patent did not appear in the printed
CC specification, but was obtained in electronic format directly from WIPO
CC at ftp.wipo.int/pub/published_pct_sequences.

SO Sequence 291 AA:

Query Match 48.7%; Score 151; DB 22; Length 291;
Best Local Similarity 100.0%; Pred. No. 1.3e-139;
Matches 151; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 87 DLGRAEILIGKTSIKIWNVTRDSALYRCEVVARNDKEIDEIVIELTVQKPYTPYCRV 146
Db 134 dlagraeilgktsikimvtrrdsalyrcevarndrkeideiveltvqkpytpcyrv 193
QY 147 PKAVPVGKMATLTCQSESGRPHRYSWYRNDVLPPTDSRANPRFRNSFHLNSETGLV 206
Db 194 pkavpvgkmatlncqeseghprhyswyrndvlpptdsranprfrnsfhlntsetglvf 253
QY 207 TAVHKDDSGGYCIASNDAGSARCEOEEMEV 237
Db 254 tavhkddsggyciasadagsarceogemev 284

RESULT 18

ABG12109
ID ABG12109 standard; Protein; 404 AA.

XX ABG12109;

DT 18-FEB-2002 (first entry)

DE Novel human diagnostic protein #12100.

KW Human: chromosome mapping; gene mapping; gene therapy; forensic;
KW food supplement; medical imaging; diagnostic; genetic disorder.

XX Homo sapiens.

PN WO200175067-A2.

PD 11-OCT-2001.

PF 30-MAR-2001; 2001WO-US08631.

PR 31-MAR-2000; 2000US-0540217.

PR 23-AUG-2000; 2000US-0649167.

(HYSE-) HYSEQ INC.

PI Drmanac RT, Liu C, Tang YT;

DR WPI: 2001-639362/73.

DR N-PSDB; AAS76296.

PT New isolated polynucleotide and encoded polypeptides, useful in
PT diagnostics, forensics, gene mapping, identification of mutations
PT responsible for genetic disorders or other traits and to assess
PT biodiversity

PS Claim 20: SEQ ID No 42468; 103pp; English.

XX The invention relates to isolated polynucleotide (I) and
CC polypeptide (II) sequences. (I) is useful as hybridisation probes,
CC polymerase chain reaction (PCR) primers, oligomers, and for chromosome
CC and gene mapping, and in recombinant production of (II). The

CC polynucleotides are also used in diagnostics as expressed sequence tags
 CC for identifying expressed genes. (I) is useful in gene therapy techniques
 CC to restore normal activity of (II) or to treat disease states involving
 CC (II). (II) is useful for generating antibodies against it, detecting or
 CC quantitating a polypeptide in tissue, as molecular weight markers and as
 CC a food supplement. (II) and its binding partners are useful in medical
 CC imaging of sites expressing (II). (I) and (II) are useful for treating
 CC disorders involving aberrant protein expression or biological activity.
 CC The polypeptide and polynucleotide sequences have applications in
 CC diagnostics, forensics, gene mapping, identification of mutations
 CC responsible for genetic disorders or other traits to assess biodiversity
 CC and to produce other types of data and products dependent on DNA and
 CC amino acid sequences. ABG00010-ABG30377 represent novel human
 CC diagnostic amino acid sequences of the invention.
 CC Note: The sequence data for this patent did not appear in the printed
 CC specification, but was obtained in electronic format directly from WIPO
 CC at ftp.wipo.int/pub/published_pct_sequences.

CC Sequence 404 AA:

Query Match 48.7%; Score 151; DB 22; Length 404;
 Best Local Similarity 100.0%; Pred. No. 1.7e-139;
 Matches 151; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 87 DLGRAEILGKTSIKIMVTRRDSALYRCEVVARNDKREIDEIVELTVQVPRVPCRV 146
 DB 134 diagraeilgktsikimvtrrdsalyrcevarndrkeideiveltvqvpvpcrv 193
 QY 147 PRAVPGKMAVLHCOESEGPRPHYSWRYNDVPLPTDSRANPRFNSRHLNSETGLVF 206
 DB 194 pravgpkmactlhcgsegprphyswryndvplptdsranprfnsrhlsetglvf 253
 QY 207 TAVHRKDSGQYCIASNDGASRCEQEMEV 237
 DB 254 tavhkdsgqycciasndagsarceqemev 284

RESULT 19
 ABG22401

ID ABG22401 standard; Protein; 361 AA.

XX AC ABG22401;

DT 18-FEB-2002 (first entry)

DE Novel human diagnostic protein #22392.

XX Human; chromosome mapping; gene mapping; gene therapy; forensic;
 food supplement; medical imaging; diagnostic; genetic disorder.

OS Homo sapiens.

PN WO200175067-A2.

PD 11-OCT-2001.

PF 30-MAR-2001; 2001WO-US08631.

PR 31-MAR-2000; 2000US-0540217.

PR 23-AUG-2000; 2000US-0649167.

PA (HYSE-) HYSEQ INC.

PI Drmanac RT, Liu C, Tang YT;

DR WPI; 2001-639362/73.

DR N-PSDB: AAS86588.

PT New isolated polynucleotide and encoded polypeptides, useful in
 PT diagnostics, forensics, gene mapping, identification of mutations
 PT responsible for genetic disorders or other traits and to assess
 PT biodiversity

XX PS Claim 20: SEQ ID No 52760; 103bp; English.

CC The invention relates to isolated polynucleotide (I) and
 CC polypeptide (II) sequences. (I) is useful as hybridisation probes,
 CC polymerase chain reaction (PCR) primers, oligomers, and for chromosome
 CC and gene mapping, and in recombinant production of (II). The
 CC polynucleotides are also used in diagnostics as expressed sequence tags
 CC for identifying expressed genes. (I) is useful in gene therapy techniques
 CC to restore normal activity of (II) or to treat disease states involving
 CC (II). (II) is useful for generating antibodies against it, detecting or
 CC quantitating a polypeptide in tissue, as molecular weight markers and as
 CC a food supplement. (II) and its binding partners are useful in medical
 CC imaging of sites expressing (II). (I) and (II) are useful for treating
 CC disorders involving aberrant protein expression or biological activity.
 CC The polypeptide and polynucleotide sequences have applications in
 CC diagnostics, forensics, gene mapping, identification of mutations
 CC responsible for genetic disorders or other traits to assess biodiversity
 CC and to produce other types of data and products dependent on DNA and
 CC amino acid sequences. ABG00010-ABG30377 represent novel human
 CC diagnostic amino acid sequences of the invention.
 CC Note: The sequence data for this patent did not appear in the printed
 CC specification, but was obtained in electronic format directly from WIPO
 CC at ftp.wipo.int/pub/published_pct_sequences.

CC Sequence 361 AA:

Query Match 33.5%; Score 104; DB 22; Length 361;
 Best Local Similarity 100.0%; Pred. No. 1.9e-93;
 Matches 104; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 26 GCLIGAVNLKSSNRTPVVOEFESVELSCIITPDSQSPRIEMKKIODEQTTFVFDNRKIQ 85
 DB 35 gcligavnlkssnrtpvvoefesvelscitdsqsprieemkkidqetvfyfdnrxq 94
 QY 86 GDLGRAEILGKTSIKIMVTRRDSALYRCEVVARNDKREIDEI 129
 DB 95 gdlagraeilgktsikimvtrrdsalyrcevarndrkeidei 138

RESULT 20

AAV11472
 ID AAV11472 standard; Protein; 89 AA.

XX AC AAV11472;

DT 21-JUN-1999 (first entry)

DE Human 5' EST secreted protein SEQ ID No 294.

XX Human; secreted protein; EST; expressed sequence tag; diagnosis;

XX forensic; gene therapy; chromosome mapping; signal peptide;

XX upstream regulatory sequence; cytokine activity; cell proliferation;

XX differentiation; haematopoiesis regulation; tissue growth regulation;

XX reproductive hormone regulation; chemotactic; chemokinetic; haemostatic;

XX thrombolytic; anti-inflammatory; tumour inhibition.

OS Homo sapiens.

PN WO9906551-A2.

PD 11-FEB-1999.

PF 31-JUL-1998; 98WO-1B01235.

PR 01-AUG-1997; 97US-0905133.

PA (GEST) GENSET.

PI Duclert A, Dumas Malne Edwards J, Lacroix B;

DR WPI, 1999-153781/13.

DR N-PSDB; AAX39538.
 XX New nucleic acids encoding human secreted - proteins obtained from
 PT cDNA libraries prepared from substantia nigra, cerebellum, adrenals
 PT and fetal brain tissue
 XX
 XX Claim 34; Page 394; 434pp; English.
 PS
 CC AAX39440 to AAX39597 represent 5' expressed sequence tags (ESTs) for
 CC human secreted proteins, and encode the proteins given in AAY1374 to
 CC AAY1531, respectively. The proteins given represent the signal peptide
 CC and an N-terminal fragment of a secreted protein. The nucleic acid
 CC sequences can be used for producing secreted human gene products. They
 CC can also be used to develop products for diagnosis and therapy. The
 CC proteins obtained may have cytokine activity, cell
 CC proliferation/differentiation activity, haematopoiesis regulating
 CC activity, tissue growth regulating activity, reproductive hormone
 CC regulating activity, chemotactic/chemokinetic activity, hemostatic and
 CC thrombolytic activity, receptor/ligand activity, anti-inflammatory
 CC activity, tumour inhibition activity or other activities. The products
 CC can be used in forensic, gene therapy and chromosome mapping procedures.
 CC The sequences can also be used for obtaining corresponding promoter
 CC sequences. The nucleic acids encoding the signal peptide can be used for
 CC directing extracellular secretion of a polypeptide or the insertion of a
 CC polypeptide into a membrane, or importing a polypeptide into a cell.
 CC
 XX Sequence 89 AA;
 SQ
 Query Match 28.7%; Score 89; DB 20; Length 89;
 Best Local Similarity 100.0%; Pred. No. 2.9e-79;
 Matches 89; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 MALRRPRLRCARLPDFLLFRGCLIGAVNLKSSNRPVQEFESVESCITTSQT 60
 Db 1 malrrprrlrcarlpdflfrgcligavnlkssnrptvqefesvscittdst 60
 QY 61 SDRPTEWKKIODEQTYTFEDNKIOGLA 89
 Db 61 sdrptewkkidqetlyvfdnkkigdia 89
 RESULT 21
 ABG27038
 ID ABG27038 standard; Protein; 267 AA.
 AC ABG27038;
 18-FEB-2002 (first entry)
 DE Novel human diagnostic protein #27029.
 XX Human; chromosome mapping; gene mapping; gene therapy; forensic;
 KW food supplement; medical imaging; diagnostic; genetic disorder.
 XX
 OS Homo sapiens.
 XX WO200175067-A2.
 XX 11-OCT-2001.
 XX 30-MAR-2001; 2001WO-US08631.
 XX 31-MAR-2000; 2000US-0540217.
 PR 23-AUG-2000; 2000US-0649167.
 XX (HYSE-) HYSEQ INC.
 PA Dirmanac RT, Liu C, Tang YT;
 XX WPI: 2001-639362/73.
 DR N-PSDB; AAS91225.
 XX

PT New isolated polynucleotide and encoded polypeptides, useful in
 PT diagnostics, forensics, gene mapping, identification of mutations
 PT responsible for genetic disorders or other traits and to assess
 PT biodiversity -
 XX
 XX Claim 20; SEQ ID No 57397; 103pp; English.
 PS
 CC The invention relates to isolated polynucleotide (I) and
 CC polypeptide (II) sequences. (I) is useful as hybridisation probes,
 CC polymerase chain reaction (PCR) primers, oligomers, and for chromosome
 CC and gene mapping, and in recombinant production of (II). The
 CC polynucleotides are also used in diagnostics as expressed sequence tags
 CC for identifying expressed genes. (I) is useful in gene therapy techniques
 CC to restore normal activity of (II) or to treat disease states involving
 CC (II). (II) is useful for generating antibodies against it, detecting or
 CC quantitating a polypeptide in tissue, as molecular weight markers and as
 CC a food supplement. (II) and its binding partners are useful in medical
 CC imaging of sites expressing (II). (I) and (II) are useful for treating
 CC disorders involving aberrant protein expression or biological activity.
 CC The polypeptide and polynucleotide sequences have applications in
 CC diagnostics, forensics, gene mapping, identification of mutations
 CC responsible for genetic disorders or other traits to assess biodiversity
 CC and to produce other types of data and products dependent on DNA and
 CC amino acid sequences. ABG00010-ABG30377 represent novel human
 CC diagnostic amino acid sequences of the invention.
 CC Note: The sequence data for this patent did not appear in the printed
 CC specification, but was obtained in electronic format directly from WIPO
 CC at ftp.wipo.int/pub/published_pct_sequences.
 CC
 XX Sequence 267 AA;
 SQ
 Query Match 20.3%; Score 63; DB 22; Length 267;
 Best Local Similarity 100.0%; Pred. No. 2.3e-53;
 Matches 63; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 239 DLNIGGTTGGVLYVLAVALTLTIGCCARRRGYRINNKQGESKYNKGPVNYITDE 298
 Db 130 dlningttggvlyvvaltlitgicccarrgyrinnkqgeskypkpgvnyirtde 189
 QY 299 EGD 301
 Db 190 egd 192
 RESULT 22
 ABG07157
 ID ABG07157 standard; Protein; 264 AA.
 AC ABG07157;
 13-FEB-2002 (first entry)
 DE Novel human diagnostic protein #7148.
 XX Human; chromosome mapping; gene mapping; gene therapy; forensic;
 KW food supplement; medical imaging; diagnostic; genetic disorder.
 XX
 OS Homo sapiens.
 XX WO200175067-A2.
 XX 11-OCT-2001.
 XX 30-MAR-2001; 2001WO-US08631.
 XX 31-MAR-2000; 2000US-0540217.
 PR 23-AUG-2000; 2000US-0649167.
 XX (HYSE-) HYSEQ INC.
 PA Dirmanac RT, Liu C, Tang YT;
 XX WPI: 2001-639362/73.
 DR N-PSDB; AAS91225.
 XX

XX New isolated polynucleotide and encoded polypeptides, useful in
PT diagnostics, forensics, gene mapping, identification of mutations
PT responsible for genetic disorders or other traits and to assess
PT biodiversity -
XX
XX Claim 20; SEQ ID NO 52757; 103bp; English.
CC The invention relates to isolated polynucleotide (I) and
CC polypeptide (II) sequences. (I) is useful as hybridisation probes,
CC polymerase chain reaction (PCR) primers, oligomers, and for chromosome
CC and gene mapping, and in recombinant production of (II). The
CC polynucleotides are also used in diagnostics as expressed sequence tags
CC for identifying expressed genes. (I) is useful in gene therapy techniques
CC to restore normal activity of (II) or to treat disease states involving
CC (II). (II) is useful for generating antibodies against it, detecting or
CC quantitating a polypeptide in tissue, as molecular weight markers and as
CC a food supplement. (I) and its binding partners are useful in medical
CC imaging of sites expressing (II). (I) and (II) are useful for treating
CC disorders involving aberrant protein expression or biological activity.
CC The polypeptide and polynucleotide sequences have applications in
CC diagnostics, forensics, gene mapping, identification of mutations
CC responsible for genetic disorders or other traits to assess biodiversity
CC and to produce other types of data and products dependent on DNA and
CC amino acid sequences. ABG00010-ABG30377 represent novel human
CC diagnostic amino acid sequences of the invention.
CC Note: The sequence data for this patent did not appear in the printed
CC specification, but was obtained in electronic format directly from WIPO
CC at ftp.wipo.int/pub/published_pct_sequences.
XX
XX Sequence 68 AA:

PT CRAM-2) polypeptide, useful for treatment of tumors, inflammation
PT reactions and modulating vascular permeability -
XX
XX
PS Claim 1; Fig 3; 59pp; English.
XX
CC The present sequence is the human confluency regulated adhesion molecule
CC 1 (CRAM-1, also known as JAM-2). CRAM-1 is one of the vascular adhesion
CC proteins of the immunoglobulin superfamily (Ig Sf). The CRAM-1 protein
CC and coding sequence can be used in the treatment of cancer,
CC inflammation, to modulate cell-cell interactions and angiogenesis, and
CC in the modulation of wound healing.
XX
XX
SQ Sequence 310 AA;

Matches 24: Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 167 PRPHYSWYRNDVPLPTDSRANPRF 190
|||||
Db 167 prphyswyrndvplptdsranprf 190

RESULT 27

ABB29193
ID ABB29193 standard; Peptide; 31 AA.

AC ABB29193;

DT 01-FEB-2002 (first entry)

DE Peptide #1844 encoded by breast cell single exon nucleic acid probe.

KW Human; microarray; single exon probe; gene expression; breast;
KW disease; cancer.

XX Homo sapiens.

FM WO200157271-A2.

PD 09-AUG-2001.

PF 30-JAN-2001; 2001WO-US00662.

PR 04-FEB-2000; 2000US-0180312.

PR 26-MAY-2000; 2000US-0207456.

PR 30-JUN-2000; 2000US-0608408.

PR 03-AUG-2000; 2000US-0632366.

PR 21-SEP-2000; 2000US-0234687.

PR 27-SEP-2000; 2000US-0236359.

PR 04-OCT-2000; 2000GB-0024263.

PA (MOLE-) MOLECULAR DYNAMICS INC.

PI Penn SG, Hanzel DK, Chen W, Rank DR;

PT WPI; 2001-496933/54.

PS New spatially-addressable set of single exon nucleic acid probes,
PT useful for measuring gene expression in sample derived from human
PT breast, comprises number of single exon nucleic acid probes -

XX Claim 27; SEQ ID NO 12161; 327pp + sequence listing; English.

CC The invention relates to a spatially-addressable set of single exon
CC nucleic acid probes for measuring gene expression in a sample derived
CC from human breast and BT 474 cells. The method involves contacting
CC the probes with a collection of detectably labelled nucleic acids
CC derived from mRNA of human breast, and then measuring the label
CC bound to each probe of the microarray. The probes are useful for
CC verifying the expression of regions of genomic DNA predicted to
CC encode proteins. They are useful for gene discovery, and for
CC determining predisposition and/or prognosing breast disease. Gene
CC expression analysis is useful for assessing the toxicity of chemical
CC agents on cells. The microarray of this invention presents a far greater
CC diversity of probes for measuring gene expression, with far less bias
CC than expressed sequence tag microarrays. The method is suitable for
CC rapid production of functional information from genomic sequence. The
CC present sequence is a peptide encoded by a single exon nucleic acid
CC probe of the invention.
CC Note: The sequence data for this patent did not form part of the
CC printed specification, but was obtained in electronic format directly
CC from WIPO at ftp.wipo.int/pub/published_pct_sequences.

SO Sequence 31 AA;

Query Match 2.6%; Score 8; DB 22; Length 31;
Best Local Similarity 100.0%; Pred. No. 3.1;

Matches 8: Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 249 VLVLAVL 256
|||||
Db 10 vlvlavl 17

RESULT 28

ABB34350
ID ABB34350 standard; Peptide; 31 AA.

AC ABB34350;

DT 04-FEB-2002 (first entry)

DE Peptide #1856 encoded by human foetal liver single exon probe.

KW Human; foetal liver; gene expression; single exon nucleic acid probe.

XX Homo sapiens.

FM WO200157277-A2.

PD 09-AUG-2001.

PF 30-JAN-2001; 2001WO-US00669.

PR 04-FEB-2000; 2000US-0180312.

PR 26-MAY-2000; 2000US-0207456.

PR 30-JUN-2000; 2000US-0608408.

PR 03-AUG-2000; 2000US-0632366.

PR 21-SEP-2000; 2000US-0234687.

PR 27-SEP-2000; 2000US-0236359.

PR 04-OCT-2000; 2000GB-0024263.

PA (MOLE-) MOLECULAR DYNAMICS INC.

PI Penn SG, Hanzel DK, Chen W, Rank DR;

PT WPI; 2001-483447/52.

PS Human genome-derived single exon nucleic acid probes useful for
PT analyzing gene expression in human foetal liver -

XX Claim 27; SEQ ID NO 26985; 639pp + sequence listing; English.

CC The invention relates to a single exon nucleic acid probe for
CC measuring human gene expression in a sample derived from human foetal
CC liver. The single exon nucleic acid probes may be used for predicting,
CC measuring and displaying gene expression in samples derived from human
CC foetal liver. The present sequence is a peptide encoded by a single exon
CC nucleic acid probe of the invention.
CC Note: The sequence data for this patent did not form part of the
CC printed specification, but was obtained in electronic format directly
CC from WIPO at ftp.wipo.int/pub/published_pct_sequences.

SO Sequence 31 AA;

Query Match 2.6%; Score 8; DB 22; Length 31;
Best Local Similarity 100.0%; Pred. No. 3.1;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 249 VLVLAVL 256
|||||

Db 10 vlvlavl 17

RESULT 29

ABB19769
ID ABB19769 standard; Protein; 31 AA.

AC ABB19769;

XX 23-JAN-2002 (first entry)
DE Protein #1768 encoded by probe for measuring heart cell gene expression.
XX
XX Human; gene expression; heart; microarray; vascular system;
KW cardiovascular disease; hypertension; cardiac arrhythmia;
KW congenital heart disease.
XX
OS Homo sapiens.
XX
PN WO200157274-A2.
XX
PD 09-AUG-2001.
XX
PF 30-JAN-2001; 2001WO-US00666.
XX
PR 04-FEB-2000; 2000US-0180312.
PR 26-MAY-2000; 2000US-0207456.
PR 30-JUN-2000; 2000US-0608408.
PR 03-AUG-2000; 2000US-0632366.
PR 21-SEP-2000; 2000US-0234687.
PR 27-SEP-2000; 2000US-0236359.
PR 04-OCT-2000; 2000GB-0024263.
XX
PA (MOLE-) MOLECULAR DYNAMICS INC.
XX
PI Penn SG, Hanzel DK, Chen W, Rank DR;
XX
DR WPI; 2001-488899/53.
XX
XX
PT Single exon nucleic acid probes for analyzing gene expression in human
PT hearts -
XX
PS Claim 15; SEQ ID No 21539; 530bp; English.
XX
CC The present invention relates to single exon nucleic acid probes for
CC measuring human gene expression in a sample derived from human heart (see
CC ABA21535-ABA41305). The present sequence is a protein encoded by one such
CC probe. The probes may be used for predicting, measuring and displaying
CC gene expression in samples derived from the human heart via microarrays.
CC By measuring gene expression, the probes are useful for predicting,
CC diagnosing, grading, staging, monitoring and prognosing diseases of the
CC human heart and vascular system e.g. cardiovascular disease.
CC hypertension, cardiac arrhythmias and congenital heart disease.
CC Note: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format directly from WIPO
CC at ftp.wipo.int/pub/published_pct_sequences.
SQ
Sequence 31 AA:

Query Match 2.6%; Score 8; DB 22; Length 31;
Best Local Similarity 100.0%; Pred. No. 3.1;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 249 VLVVLAVL 256
|||
DB 10 VLVVLAVL 17

RESULT 30
AAM55147
ID AAM55147 standard; Protein; 31 AA.
XX
AC AAM55147;
XX
DT 05-NOV-2001 (first entry)
XX
DE Human brain expressed single exon probe encoded protein SEQ ID NO: 27252.
XX
KW Human; brain expressed exon; gene expression analysis; probe;
KW microarray; Alzheimer's disease; multiple sclerosis; schizophrenia;

KW epilepsy; cancer.
XX
OS Homo sapiens.
XX
PN WO200157275-A2.
XX
PD 09-AUG-2001.
XX
PF 30-JAN-2001; 2001WO-US00667.
XX
PR 04-FEB-2000; 2000US-0180312.
PR 26-MAY-2000; 2000US-0207456.
PR 30-JUN-2000; 2000US-0608408.
PR 03-AUG-2000; 2000US-0632366.
PR 21-SEP-2000; 2000US-0234687.
PR 27-SEP-2000; 2000US-0236359.
PR 04-OCT-2000; 2000GB-0024263.
XX
PA (MOLE-) MOLECULAR DYNAMICS INC.
XX
PI Penn SG, Hanzel DK, Chen W, Rank DR;
XX
DR WPI; 2001-483446/52.
XX
XX
PT Single exon nucleic acid probes for analyzing gene expression in human
PT brains -
XX
PS Example 4; SEQ ID NO: 27252; 650bp + Sequence Listing; English.
XX
CC The present invention provides a number of single exon nucleic acid
CC probes which are derived from genomic sequences expressed in the human
CC brain. They can be used to measure gene expression in brain cell samples,
CC which may enable the diagnosis and improved treatment of nervous system
CC diseases such as Alzheimer's disease, multiple sclerosis, schizophrenia,
CC epilepsy and cancers. The present sequence is a protein encoded by one of
CC the probes of the invention.
SQ
Sequence 31 AA:

Query Match 2.6%; Score 8; DB 22; Length 31;
Best Local Similarity 100.0%; Pred. No. 3.1;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 249 VLVVLAVL 256
|||
DB 10 VLVVLAVL 17

RESULT 31
AAM67540
ID AAM67540 standard; Protein; 31 AA.
XX
AC AAM67540;
XX
DT 06-NOV-2001 (first entry)
XX
DE Human bone marrow expressed probe encoded protein SEQ ID NO: 27846.
XX
KW Human; bone marrow expressed exon; gene expression analysis; probe;
KW microarray; cancer; Leukaemia; Lymphoma; myeloma.
XX
OS Homo sapiens.
XX
PN WO200157276-A2.
XX
PD 09-AUG-2001.
XX
PF 30-JAN-2001; 2001WO-US00668.
XX
PR 04-FEB-2000; 2000US-0180312.
PR 26-MAY-2000; 2000US-0207456.
PR 30-JUN-2000; 2000US-0608408.

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OM protein - protein search, using sw model

Run on: September 19, 2002, 17:39:38 : Search time 23.64 Seconds
(without alignments)
320.302 Million cell updates/sec

Title: US-09-524-531C-15

Perfect score: 310
Sequence: 1 MALRRPRLRLCARLPDFLL.....VNYIRTEDEGDRHRSSEFVI 310

Scoring table:

OLIGO
Gapop 60.0 , Gapext 60.0

Searched: 231628 seqs, 24425594 residues

Hit size : 0

Total number of hits satisfying chosen parameters: 231628

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: listing first 75 summaries

Database : Issued_Patents_AA:*

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4: /cgn2_6/ptodata/2/1aa/6B.COMB.pep:*
5: /cgn2_6/ptodata/2/1aa/PCIOS.COMB.pep:*
6: /cgn2_6/ptodata/2/1aa/backfile1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	7	2.3	14	2	US-08-310-912A-190
2	7	2.3	14	4	US-09-301-085-190
3	7	2.3	14	5	PCR-US95-04589-190
4	7	2.3	52	4	US-09-330-330-9
5	7	2.3	241	1	US-08-484-227-2
6	7	2.3	241	1	US-08-476-488-2
7	7	2.3	241	1	US-08-467-070-2
8	7	2.3	241	1	US-08-467-070A-2
9	7	2.3	241	5	PCR-US93-11669-2
10	7	2.3	244	4	US-08-883-086-9
11	7	2.3	249	2	US-09-154-807-1
12	7	2.3	249	3	US-09-373-029-1
13	7	2.3	333	1	US-08-148-215A-4
14	7	2.3	454	4	US-09-240-639-11
15	7	2.3	524	2	US-08-928-692-12
16	7	2.3	642	1	US-08-706-936-3
17	7	2.3	642	1	US-08-706-936-3
18	7	2.3	643	2	US-08-616-844-39
19	7	2.3	643	3	US-08-599-654-39
20	7	2.3	643	3	US-08-944-868A-39
21	7	2.3	643	3	US-08-944-423A-39
22	7	2.3	643	3	US-08-944-423A-39
23	7	2.3	693	1	US-08-553-279-2
24	7	2.3	885	2	US-08-310-912A-2
25	7	2.3	885	3	US-08-841-089-2
26	7	2.3	885	4	US-09-301-085-2
27	7	2.3	885	5	PCR-US95-04570-2

28	7	2.3	885	5	PCR-US95-04589-2	Sequence 2, Appl1
29	7	2.3	907	2	US-08-930-996A-7	Sequence 7, Appl1
30	7	2.3	909	3	US-08-310-912A-142	Sequence 142, App
31	7	2.3	909	4	US-09-301-085-142	Sequence 142, App
32	7	2.3	909	5	PCR-US95-04589-142	Sequence 142, App
33	7	2.3	4551	3	US-09-320-878-1	Sequence 31, Appl1
34	7	2.3	4613	4	US-09-105-537-6	Sequence 31, Appl1
35	7	2.3	11877	2	US-08-406-330-80	Sequence 80, Appl1
36	6	1.9	12	2	US-08-556-597-80	Sequence 80, Appl1
37	6	1.9	17	2	US-08-321-670-9	Sequence 9, Appl1
38	6	1.9	12	2	US-08-321-670-9	Sequence 9, Appl1
39	6	1.9	27	4	US-09-227-357-216	Sequence 276, App
40	6	1.9	39	4	US-09-220-528-49	Sequence 49, Appl1
41	6	1.9	45	3	US-09-053-197A-72	Sequence 72, Appl1
42	6	1.9	45	4	US-09-085-761A-77	Sequence 72, Appl1
43	6	1.9	50	1	US-08-331-394-12	Sequence 12, Appl1
44	6	1.9	50	1	US-08-250-858-12	Sequence 12, Appl1
45	6	1.9	50	1	US-08-446-915-12	Sequence 12, Appl1
46	6	1.9	50	2	US-08-744-139-12	Sequence 12, Appl1
47	6	1.9	50	5	PCR-US95-06639-12	Sequence 12, Appl1
48	6	1.9	51	2	US-08-691-814B-19	Sequence 19, Appl1
49	6	1.9	76	1	US-08-519-777-22	Sequence 22, Appl1
50	6	1.9	76	1	US-08-742-035-22	Sequence 22, Appl1
51	6	1.9	76	2	US-08-777-019-22	Sequence 22, Appl1
52	6	1.9	76	2	US-08-777-019-22	Sequence 22, Appl1
53	6	1.9	76	3	US-08-775-414-22	Sequence 22, Appl1
54	6	1.9	76	4	US-08-931-858E-22	Sequence 22, Appl1
55	6	1.9	76	4	US-08-981-739-22	Sequence 22, Appl1
56	6	1.9	95	1	US-08-519-777-24	Sequence 24, Appl1
57	6	1.9	95	1	US-08-742-035-24	Sequence 24, Appl1
58	6	1.9	95	2	US-08-777-019-24	Sequence 24, Appl1
59	6	1.9	95	2	US-08-777-019-24	Sequence 24, Appl1
60	6	1.9	95	3	US-08-775-414-24	Sequence 24, Appl1
61	6	1.9	95	4	US-08-931-858E-24	Sequence 24, Appl1
62	6	1.9	95	4	US-08-981-739-24	Sequence 24, Appl1
63	6	1.9	98	1	US-08-118-270-330	Sequence 330, App
64	6	1.9	98	5	PCR-US93-08528-330	Sequence 330, App
65	6	1.9	100	4	US-09-230-196-5	Sequence 5, Appl1
66	6	1.9	106	4	US-08-936-165A-482	Sequence 482, App
67	6	1.9	111	4	US-09-220-528-53	Sequence 53, Appl1
68	6	1.9	115	2	US-08-672-345C-18	Sequence 18, Appl1
69	6	1.9	115	2	US-08-672-345C-108	Sequence 108, App
70	6	1.9	115	4	US-09-214-095D-18	Sequence 18, Appl1
71	6	1.9	115	4	US-09-214-095D-98	Sequence 98, Appl1
72	6	1.9	119	1	US-08-469-486-49	Sequence 49, Appl1
73	6	1.9	119	2	US-08-469-658-49	Sequence 49, Appl1
74	6	1.9	123	2	US-08-822-573-2	Sequence 2, Appl1
75	6	1.9	145	4	US-09-096-244-2	Sequence 2, Appl1

ALIGNMENTS

RESULT 1
US-08-310-912A-190
Sequence 190, Application US/08310912A
Patent No. 5981730
GENERAL INFORMATION:
APPLICANT: Ausubel, Frederick M.
APPLICANT: Staskiewicz, Brian J.
APPLICANT: Brent, Andrew F.
APPLICANT: Dahlbeck, Douglas
APPLICANT: Katagiri, Pumiaki
APPLICANT: Kunkel, Barbara N.
APPLICANT: Mindrinos, Michael N.
APPLICANT: Yu, Guo-Liang
TITLE OF INVENTION: RPS2 GENE FAMILY, PRIMERS, PROBES, AND DETECTION
NUMBER OF SEQUENCES: 208
CORRESPONDENCE ADDRESS:
ADDRESSER: Fish & Richardson P.C.
STREET: 225 Franklin Street
CITY: Boston

STATE: MA
COUNTRY: USA
ZIP: 02110-2904
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30B
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/310,912A
FILING DATE: September 22, 1994
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/227,360
FILING DATE: April 13, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Lech, Karen F.
REGISTRATION NUMBER: 35,238
REFERENCE/DOCKET NUMBER: 00786/254001
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 542-5070
TELEFAX: (617) 542-8906
TELEX: 100254
INFORMATION FOR SEQ. ID NO: 190:
SEQUENCE CHARACTERISTICS:
LENGTH: 14 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-310-912A-190

Query Match 2.3%; Score 7; DB 2; Length 14;
Best Local Similarity 100.0%; Pred. No. 5.8;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 256 LALITLG 262
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DB 5 LALITLG 11

RESULT 2
US-09-301-085-190
Sequence 190, Application US/09301085
Patent No. 6262248
GENERAL INFORMATION:
APPLICANT: Ausubel, Frederick M.
APPLICANT: Staskiewicz, Brian J.
APPLICANT: Brent, Andrew F.
APPLICANT: Dahlbeck, Douglas
APPLICANT: Katagiri, Fumitaki
APPLICANT: Kunkel, Barbara N.
APPLICANT: Mindinos, Michael N.
APPLICANT: Yu, Guo-Liang
TITLE OF INVENTION: RPS2 GENE FAMILY, PRIMERS, PROBES, AND
TITLE OF INVENTION: DETECTION METHODS
FILE REFERENCE: 00786/254002
CURRENT APPLICATION NUMBER: US/09/301,085
CURRENT FILING DATE: 1999-04-28
EARLIER APPLICATION NUMBER: 08/310,912
EARLIER FILING DATE: 1994-09-22
EARLIER APPLICATION NUMBER: 08/227,360
EARLIER FILING DATE: 1994-04-13
NUMBER OF SEQ ID NOS: 208
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 190
LENGTH: 14
TYPE: PRT
ORGANISM: Arabidopsis thaliana
US-09-301-085-190

Query Match 2.3%; Score 7; DB 4; Length 14;

Best Local Similarity 100.0%; Pred. No. 5.8;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 256 LALITLG 262
|||||||
DB 5 LALITLG 11

RESULT 3
PCT-US95-04589-190
Sequence 190, Application PC/TUS9504589
GENERAL INFORMATION:
APPLICANT: Ausubel, Frederick M.
APPLICANT: Staskiewicz, Brian J.
APPLICANT: Brent, Andrew F.
APPLICANT: Dahlbeck, Douglas
APPLICANT: Katagiri, Fumitaki
APPLICANT: Kunkel, Barbara N.
APPLICANT: Mindinos, Michael N.
APPLICANT: Yu, Guo-Liang
TITLE OF INVENTION: RPS2 GENE AND USES THEREOF
NUMBER OF SEQUENCES: 201
CORRESPONDENCE ADDRESS:
ADDRESSEE: Fish & Richardson
STREET: 225 Franklin Street Suite 3100
CITY: Boston
STATE: MA
COUNTRY: USA
ZIP: 02110-2904
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30B
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/04589
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/227,360
FILING DATE: 13-APR-1994
ATTORNEY/AGENT INFORMATION:
NAME: Clark, Paul T.
REGISTRATION NUMBER: 30,162
REFERENCE/DOCKET NUMBER: 00786/230001
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 542-5070
TELEFAX: (617) 542-8906
TELEX: 100254
INFORMATION FOR SEQ ID NO: 190:
SEQUENCE CHARACTERISTICS:
LENGTH: 14 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
PCT-US95-04589-190

Query Match 2.3%; Score 7; DB 5; Length 14;
Best Local Similarity 100.0%; Pred. No. 5.8;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 256 LALITLG 262
|||||||
DB 5 LALITLG 11

RESULT 4
US-09-330-330-9
Sequence 9, Application US/09330330
Patent No. 6274789
GENERAL INFORMATION:
APPLICANT: Yano, Masahito

GenCore version 4.5
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OM protein - protein search, using sw model

Run on: September 19, 2002, 17:32:32 : Search time 52.83 Seconds
(without alignments)
651.767 Million cell updates/sec

Title: US-09-524-531C-13

Perfect score: 310

Sequence: 1 MALSRRLRLRLRLPHFL.....VNIYRTSEEGDPRKKSFFVI 310

Scoring table:
Gapop 60.0, Gapext 60.0

Searched: 747574 seqs, 111073796 residues

Database:

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 75 summaries

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16: /SIDSL/gcgdata/hold-geneseq/geneseq-emb1/AA1995.DAT.*
17: /SIDSL/gcgdata/hold-geneseq/geneseq-emb1/AA1996.DAT.*
18: /SIDSL/gcgdata/hold-geneseq/geneseq-emb1/AA1997.DAT.*
19: /SIDSL/gcgdata/hold-geneseq/geneseq-emb1/AA1998.DAT.*
20: /SIDSL/gcgdata/hold-geneseq/geneseq-emb1/AA1999.DAT.*
21: /SIDSL/gcgdata/hold-geneseq/geneseq-emb1/AA2000.DAT.*
22: /SIDSL/gcgdata/hold-geneseq/geneseq-emb1/AA2001.DAT.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	310	100.0	310	21	Human confuency r
2	310	100.0	310	21	Murine confuency r
3	24	7.7	285	21	Human secreted pro
4	24	7.7	291	22	Novel human diagno
5	24	7.7	310	21	Human confuency r
6	24	7.7	310	21	Human PRO1868 prot
7	24	7.7	310	21	PRO1868, an A33 an
8	24	7.7	310	21	Human IGFAM-6 immu
9	24	7.7	310	22	Human polypeptide,
10	24	7.7	310	22	Human polypeptide,
11	24	7.7	310	22	Human PRO1868 poly

12	24	7.7	310	22	Human PRO1868 prot
13	24	7.7	310	22	Secreted protein e
14	24	7.7	310	22	Secreted protein e
15	24	7.7	310	22	Secreted protein e
16	24	7.7	311	21	Human secreted pro
17	24	7.7	311	21	Human secreted pro
18	24	7.7	311	21	Human secreted pro
19	24	7.7	339	22	Gene #13 associate
20	24	7.7	404	22	Novel human diagno
21	21	6.8	361	22	Novel human diagno
22	15	4.8	68	22	Novel human diagno
23	15	4.8	89	20	Novel human diagno
24	10	3.2	267	22	Novel human diagno
25	8	2.6	48	17	Novel human diagno
26	8	2.6	48	17	Novel human diagno
27	8	2.6	204	22	Novel human diagno
28	8	2.6	204	22	Novel human diagno
29	8	2.6	246	19	Novel human diagno
30	8	2.6	246	19	Novel human diagno
31	8	2.6	324	22	Novel human diagno
32	8	2.6	324	22	Novel human diagno
33	8	2.6	324	22	Novel human diagno
34	8	2.6	506	21	Novel human diagno
35	7	2.3	7	21	Novel human diagno
36	7	2.3	39	21	Novel human diagno
37	7	2.3	40	22	Novel human diagno
38	7	2.3	56	22	Novel human diagno
39	7	2.3	58	22	Novel human diagno
40	7	2.3	58	22	Novel human diagno
41	7	2.3	67	21	Novel human diagno
42	7	2.3	70	21	Novel human diagno
43	7	2.3	71	22	Novel human diagno
44	7	2.3	85	20	Novel human diagno
45	7	2.3	91	22	Novel human diagno
46	7	2.3	92	21	Novel human diagno
47	7	2.3	92	21	Novel human diagno
48	7	2.3	93	22	Novel human diagno
49	7	2.3	101	22	Novel human diagno
50	7	2.3	104	22	Novel human diagno
51	7	2.3	110	21	Novel human diagno
52	7	2.3	110	21	Novel human diagno
53	7	2.3	111	22	Novel human diagno
54	7	2.3	111	22	Novel human diagno
55	7	2.3	121	21	Novel human diagno
56	7	2.3	127	22	Novel human diagno
57	7	2.3	145	21	Novel human diagno
58	7	2.3	147	21	Novel human diagno
59	7	2.3	147	21	Novel human diagno
60	7	2.3	158	21	Novel human diagno
61	7	2.3	170	21	Novel human diagno
62	7	2.3	170	22	Novel human diagno
63	7	2.3	173	22	Novel human diagno
64	7	2.3	179	21	Novel human diagno
65	7	2.3	180	22	Novel human diagno
66	7	2.3	185	22	Novel human diagno
67	7	2.3	201	22	Novel human diagno
68	7	2.3	208	21	Novel human diagno
69	7	2.3	209	22	Novel human diagno
70	7	2.3	209	22	Novel human diagno
71	7	2.3	233	20	Novel human diagno
72	7	2.3	242	22	Novel human diagno
73	7	2.3	242	22	Novel human diagno
74	7	2.3	242	22	Novel human diagno
75	7	2.3	242	22	Novel human diagno

ALIGNMENTS

RESULT 1
ID AAB27272 standard: Protein: 310 AA.
XX

AC AAB27272;
 XX
 DT 23-FEB-2001 (first entry)
 XX
 DE Human confluency regulated adhesion molecule 1 #1.
 XX
 KW Immunoglobulin superfamily; Ig Sf; vascular adhesion molecule;
 KW inflammation; cancer; wound; angiogenesis; human;
 KW confluency regulated adhesion molecule 1; CRAM-1; JAM-2.
 XX
 OS Homo sapiens.
 XX
 PN WO200053749-A2.
 XX
 PD 14-SEP-2000.
 XX
 PF 13-MAR-2000; 2000WO-EP02219.
 XX
 PR 11-MAR-1999; 99EP-0200746.
 XX
 (RMFD-) RMF DICTAGENE SA.
 XX
 PI Imhof BA, Aurrand-Lions M;
 XX
 DR WPI; 2000-587436/55.
 XX
 PT Isolated human Confluency Regulated Adhesion Molecule 1 or 2 (CRAM-1 or
 PT CRAM-2) polypeptide, useful for treatment of tumors, inflammation
 PT reactions and modulating vascular permeability -
 XX
 PS Claim 1; Fig 3; 59pp; English.
 XX
 CC The present sequence is the human confluency regulated adhesion molecule
 CC 1 (CRAM-1, also known as JAM-2). CRAM-1 is one of the vascular adhesion
 CC proteins of the immunoglobulin superfamily (Ig Sf). The CRAM-1 protein
 CC and coding sequence can be used in the treatment of cancer,
 CC inflammation, to modulate cell-cell interactions and angiogenesis, and
 CC in the modulation of wound healing.
 XX
 SQ Sequence 310 AA;
 Query Match 100.0%; Score 310; DB 21; Length 310;
 Best Local Similarity 100.0%; Pred. No. 1.3e-288;
 Matches 310; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 MALSRRLRLRYARLPHFFLLLRGCMIEAVNLKSSNRNPVHFEFSEVLSCTITTSQT 60
 1 malsrrlrlyarlphefllllrfgcmleavnlkssnrnpvnhfefesvelscilthsgt 60
 QY 61 SDPRIEMKKIDDGOTTYVYPDNKIQGLAGRTDVFQKTSLRIMWVTRSDSAIYRCEVVAL 120
 61 sdprlwmkkidggttyvypdnkiqglagrtdvfqktslrilmwvtrsdaiyrceval 120
 Db 61 sdprlwmkkidggttyvypdnkiqglagrtdvfqktslrilmwvtrsdaiyrceval 120
 QY 121 NDREVEDEITELIVQKPVTPVCRIPAAPVPGKTATLQCESEGYPHPHSWRNDVPL 180
 121 ndreveideitellivqkpvtpvcripaapvpgktatlqcesegypphpswryndvpl 180
 Db 121 ndreveideitellivqkpvtpvcripaapvpgktatlqcesegypphpswryndvpl 180
 QY 181 PTDSRANPRPNSSFHNSETGLVFNAVHKDSDGQYTCIASNAGAACRGQMEYVDL 240
 181 ptdsranprpnssfhnsetglvfnavhkdsgoytciasnagaarcgqmevydl 240
 Db 181 ptdsranprpnssfhnsetglvfnavhkdsgoytciasnagaarcgqmevydl 240
 QY 241 NIAGIGGVLLVLAIVTWMGICAYRRCGFISSKODGESYKSPGKHGQVNYRTSEEG 300
 241 niagliggvllvllavltwmgicayrrcgfisskdgesykspgkhdgvnyrtseeg 300
 Db 241 niagliggvllvllavltwmgicayrrcgfisskdgesykspgkhdgvnyrtseeg 300
 QY 301 DFRHKSSEFVI 310
 301 dfrhkssefvi 310
 Db 301 dfrhkssefvi 310

RESULT 2
 AAB27278

ID AAB27278 standard; Protein; 310 AA.
 XX
 AC AAB27278;
 XX
 DT 23-FEB-2001 (first entry)
 XX
 DE Murine confluency regulated adhesion molecule 1.
 XX
 KW Immunoglobulin superfamily; Ig Sf; vascular adhesion molecule;
 KW inflammation; cancer; wound; angiogenesis; mouse;
 KW confluency regulated adhesion molecule 1; CRAM-1; JAM-2.
 XX
 OS Mus sp.
 XX
 PN WO200053749-A2.
 XX
 PD 14-SEP-2000.
 XX
 PF 13-MAR-2000; 2000WO-EP02219.
 XX
 PR 11-MAR-1999; 99EP-0200746.
 XX
 (RMFD-) RMF DICTAGENE SA.
 XX
 PI Imhof BA, Aurrand-Lions M;
 XX
 DR WPI; 2000-587436/55.
 XX
 DR N-PSDB; AAA97189.
 XX
 PT Isolated human Confluency Regulated Adhesion Molecule 1 or 2 (CRAM-1 or
 PT CRAM-2) polypeptide, useful for treatment of tumors, inflammation
 PT reactions and modulating vascular permeability -
 XX
 PS Example; Fig 8; 59pp; English.
 XX
 CC The present sequence is the murine confluency regulated adhesion molecule
 CC 1 (CRAM-1, also known as JAM-2). CRAM-1 is one of the vascular adhesion
 CC proteins of the immunoglobulin superfamily (Ig Sf). The CRAM-1 protein
 CC and coding sequence can be used in the treatment of cancer, inflammation,
 CC to modulate cell-cell interactions and angiogenesis, and in the
 CC modulation of wound healing.
 XX
 SQ Sequence 310 AA;
 Query Match 100.0%; Score 310; DB 21; Length 310;
 Best Local Similarity 100.0%; Pred. No. 1.3e-288;
 Matches 310; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 MALSRRLRLRYARLPHFFLLLRGCMIEAVNLKSSNRNPVHFEFSEVLSCTITTSQT 60
 1 malsrrlrlyarlphefllllrfgcmleavnlkssnrnpvnhfefesvelscilthsgt 60
 Db 1 malsrrlrlyarlphefllllrfgcmleavnlkssnrnpvnhfefesvelscilthsgt 60
 QY 61 SDPRIEMKKIDDGOTTYVYPDNKIQGLAGRTDVFQKTSLRIMWVTRSDSAIYRCEVVAL 120
 61 sdprlwmkkidggttyvypdnkiqglagrtdvfqktslrilmwvtrsdaiyrceval 120
 Db 61 sdprlwmkkidggttyvypdnkiqglagrtdvfqktslrilmwvtrsdaiyrceval 120
 QY 121 NDREVEDEITELIVQKPVTPVCRIPAAPVPGKTATLQCESEGYPHPHSWRNDVPL 180
 121 ndreveideitellivqkpvtpvcripaapvpgktatlqcesegypphpswryndvpl 180
 Db 121 ndreveideitellivqkpvtpvcripaapvpgktatlqcesegypphpswryndvpl 180
 QY 181 PTDSRANPRPNSSFHNSETGLVFNAVHKDSDGQYTCIASNAGAACRGQMEYVDL 240
 181 ptdsranprpnssfhnsetglvfnavhkdsgoytciasnagaarcgqmevydl 240
 Db 181 ptdsranprpnssfhnsetglvfnavhkdsgoytciasnagaarcgqmevydl 240
 QY 241 NIAGIGGVLLVLAIVTWMGICAYRRCGFISSKODGESYKSPGKHGQVNYRTSEEG 300
 241 niagliggvllvllavltwmgicayrrcgfisskdgesykspgkhdgvnyrtseeg 300
 Db 241 niagliggvllvllavltwmgicayrrcgfisskdgesykspgkhdgvnyrtseeg 300
 QY 301 DFRHKSSEFVI 310
 301 dfrhkssefvi 310
 Db 301 dfrhkssefvi 310

RESULT 3
 AAB39254
 ID AAB39254 standard; Protein: 285 AA.
 XX
 AC AAB39254;
 XX
 DT 02-FEB-2001 (first entry)
 XX
 DE Human secreted protein sequence encoded by gene 15 SEQ ID NO:134.
 XX
 KW Human; secreted protein; immunosuppressive; antirheumatic; antirheumatic;
 KW antiproliferative; cytosolic; cardiant; vasotropic; cerebroprotective;
 KW neuroprotective; antibacterial; virucide; fungicide; neoplasm;
 KW optalmalogical; autoimmune disease; rheumatoid arthritis; angiogenesis;
 KW hyperproliferative disorder; cardiovascular disorder; infection;
 KW cerebrovascular disorder; nervous system disorder; ocular disorder;
 KW wound healing; chemotaxis.
 XX
 OS Homo sapiens.
 XX
 MO200056754-A1.
 XX
 PD 28-SEP-2000.
 XX
 PF 16-MAR-2000; 2000WO-US06792.
 XX
 PR 19-MAR-1999; 99US-0125362.
 XX
 PR 10-DEC-1999; 99US-0169980.
 XX
 PA (HUMA-) HUMAN GENOME SCI INC.
 XX
 PI Rosen GA, Ruben SM, Komatsoulis G;
 XX
 DR WPI: 2000-579483/54.
 XX
 DR N-PSDB: AAC74237.
 XX
 PT Isolated nucleic acid molecule encoding a human secreted protein is
 PT used in preventing, treating or ameliorating a medical condition
 XX
 PS Disclosure: Page 32; 434pp; English.
 XX
 CC The polynucleotide sequences given in AAC74223-C74279 encode the human
 CC secreted proteins represented in AAB39179-B39226. Sequences
 CC AAB39227-B39308 are alternative proteins encoded by the genes, and also
 CC protein sequences with which they share homology. The proteins have
 CC activities based on the tissues and cells in which they are expressed.
 CC Examples of activities include: immunosuppressive; antirheumatic;
 CC antirheumatic; antiproliferative; cytosolic; cardiant; vasotropic;
 CC cerebroprotective; neuroprotective; antibacterial; virucide;
 CC fungicide; and optalmalogical. The human secreted proteins,
 CC polynucleotides, antagonists and agonists of the invention may be useful
 CC in the treatment, prevention, and/or diagnosis of various disease,
 CC disorders and conditions such as autoimmune diseases e.g. Rheumatoid
 CC arthritis, hyperproliferative disorders e.g. neoplasms of the breast or
 CC liver, cardiovascular disorders e.g. cardiac arrest, cerebrovascular
 CC disorders e.g. cerebral ischaemia, angiogenesis, nervous system disorders
 CC e.g. Alzheimer's disease, infections caused by bacteria, viruses and
 CC fungi and ocular disorders e.g. corneal infection. The polypeptides can
 CC also be used to aid wound healing and epithelial cell proliferation, to
 CC regenerate tissues, maintain organs before transplantation, in
 CC chemotaxis and as a food additive or preservative e.g. to increase
 CC storage capabilities. Sequences AAC74214-C74222 and AAB39178 are used
 CC during the isolation and characterisation of the genes of the invention.
 XX
 SQ Sequence 285 AA:

Query Match 7.7%; Score 24; DB 21; Length 285;
 Best Local Similarity 100.0%; Pred. No. 1,1e-14;
 Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 167 PRPHYSWRNDVPLPTDSRANPRF 190

DB 142 prphyswyrndvplptdsranprf 165
 ||||||||||||||||||||||||||||
 RESULT 4
 ABG04645
 ID ABG04645 standard; Protein: 291 AA.
 XX
 AC ABG04645;
 XX
 DT 13-FEB-2002 (first entry)
 XX
 DE Novel human diagnostic protein #4636.
 XX
 KW Human; chromosome mapping; gene mapping; gene therapy; forensic;
 KW food supplement; medical imaging; diagnostic; genetic disorder.
 XX
 OS Homo sapiens.
 XX
 PN WO200175067-A2.
 XX
 PD 11-OCT-2001.
 XX
 PF 30-MAR-2001; 2001WO-US08631.
 XX
 PR 31-MAR-2000; 2000US-0540217.
 XX
 PR 23-AUG-2000; 2000US-0649167.
 XX
 PA (HYSE-) HYSEQ INC.
 XX
 PI Drmanac RT, Liu C, Tang YT;
 XX
 DR WPI: 2001-639362/73.
 XX
 DR N-PSDB: AAS68832.
 XX
 PT New isolated polynucleotide and encoded polypeptides, useful in
 PT diagnostics, forensics, gene mapping, identification of mutations
 PT responsible for genetic disorders or other traits and to assess
 PT biodiversity
 XX
 PS Claim 20; SEQ ID NO 35004; 103pp; English.
 XX
 CC The invention relates to isolated polynucleotide (I) and
 CC polypeptide (II) sequences. (I) is useful as hybridisation probes,
 CC polymerase chain reaction (PCR) primers, oligomers, and for chromosome
 CC and gene mapping, and in recombinant production of (II). The
 CC polynucleotides are also used in diagnostics as expressed sequence tags
 CC for identifying expressed genes. (I) is useful in gene therapy techniques
 CC to restore normal activity of (II) or to treat disease states involving
 CC (II). (II) is useful for generating antibodies against it, detecting or
 CC quantitating a polypeptide in tissue, as molecular weight markers and as
 CC a food supplement. (II) and its binding partners are useful in medical
 CC imaging of sites expressing (II). (I) and (II) are useful for treating
 CC disorders involving aberrant protein expression or biological activity.
 CC The polypeptide and polynucleotide sequences have applications in
 CC diagnostics, forensics, gene mapping, identification of mutations
 CC responsible for genetic disorders or other traits to assess biodiversity
 CC and to produce other types of data and products dependent on DNA and
 CC amino acid sequences. ABG00010-ABG30377 represent novel human
 CC diagnostic amino acid sequences of the invention.
 CC Note: The sequence data for this patent did not appear in the printed
 CC specification, but was obtained in electronic format directly from WIPO
 CC at ftp.wipo.int/pub/published_pct_sequences.
 XX
 SQ Sequence 291 AA:

Query Match 7.7%; Score 24; DB 22; Length 291;
 Best Local Similarity 100.0%; Pred. No. 1,1e-14;
 Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 167 PRPHYSWRNDVPLPTDSRANPRF 190
 ||||||||||||||||||||||||||||

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Db      214 prphyswyndvplptdsranprf 237

RESULT      5
ID      AAB27276
XX      AAB27276 standard; Protein: 310 AA.
AC      AAB27276;
XX      23-FEB-2001 (first entry)
DT
XX      Human confluency regulated adhesion molecule 1 #2.
DE
XX      Immunoglobulin superfamily; Ig Sf; vascular adhesion molecule;
KW      inflammation; cancer; wound; angiogenesis; human;
KW      confluency regulated adhesion molecule 1; CRAM-1; JAM-2.
XX
XX      Homo sapiens.
OS
XX      WO200053749-A2.
XX
PD      14-SEP-2000.
XX
PF      13-MAR-2000; 2000WO-EP02219.
XX
PR      11-MAR-1999; 99EP-0200746.
XX
PA      (RMEF-) RME DICTAGENE SA.
XX
PI      Imhof BA, Aurrand-Lions M;
XX
DR      WPI: 2000-587436/55.
XX      N-PSDB: AAA95306.
XX
XX      Isolated human Confluency Regulated Adhesion Molecule 1 or 2 (CRAM-1 or
PR      CRAM-2) polypeptide, useful for treatment of tumors, inflammation
PT      reactions and modulating vascular permeability -
XX
XX      Claim 2; Fig 6; 59pp; English.
XX
XX      The present sequence is the human confluency regulated adhesion molecule
CC      1 (CRAM-1, also known as JAM-2). CRAM-1 is one of the vascular adhesion
CC      1 proteins of the immunoglobulin superfamily (Ig Sf). The CRAM-1 protein
CC      and coding sequence can be used in the treatment of cancer, inflammation,
CC      to modulate cell-cell interactions and angiogenesis, and in the
CC      modulation of wound healing.
XX
XX      Sequence      310 AA;

Query Match      7.7%; Score 24; DB 21; Length 310;
Best Local Similarity 100.0%; Pred. NO. 1.2e-14;
Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0.

QY      167 PRPHYSWYRNDVPLPTDSRANPRF 190
      |||||||||||||||||||
DB      167 prphyswyndvplptdsranprf 190

RESULT      6
AAB33457
ID      AAB33457 standard; Protein: 310 AA.
XX
AC      AAB33457;
XX
DT      29-JAN-2001 (first entry)
XX
DE      Human PRO1868 protein UNQ059 SEQ ID NO:193.
XX
XX      Human: immune related disease; diagnosis; antiinflammatory; cardiant;
KW      dermatological; antiarthritic; antiinfectious; immunosuppressive;
KW      haemostatic; antihypertoid; antidiabetic; nootropic; neuroprotective;
KW      antineoplastic; hepatotropic; vituclide; antipsoriatic; antiallergic;

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KW	antiarthritic; systemic lupus erythematosus; rheumatoid arthritis;
KW	osteoarthritis; spondyloarthropathy; systemic sclerosis; sarcoidosis;
KW	idiopathic inflammatory myopathy; Sjogren's syndrome; thyroiditis;
KW	systemic vasculitis; autoimmune haemolytic anaemia; diabetes mellitus;
KW	autoimmune thrombocytopenia; immune-mediated renal disease;
KW	demyelinating disease; hepatobiliary disease; Whipple's disease;
KW	inflammatory bowel disease; gluten-sensitive enteropathy;
KW	autoimmune disease; immune-mediated skin disease; allergic disease;
KW	immunological disease; transplantation associated disease;
KW	graft rejection; graft-versus-host-disease.
OS	Homo sapiens.
XX	
PN	WO200053758-A2.
XX	
PD	14-SEP-2000.
XX	
PF	02-MAR-2000; 2000WO-US05841.
XX	
PR	08-MAR-1999; 99WO-US05028.
PR	10-MAR-1999; 99US-0123618.
PR	12-MAR-1999; 99US-0123957.
PR	23-MAR-1999; 99US-0125775.
PR	12-APR-1999; 99US-0128842.
PR	20-APR-1999; 99WO-US08615.
PR	28-APR-1999; 99US-0131445.
PR	04-MAY-1999; 99US-0132371.
PR	14-MAY-1999; 99US-0134287.
PR	02-JUN-1999; 99WO-US12252.
PR	23-JUN-1999; 99US-0141037.
PR	20-JUL-1999; 99US-0144758.
PR	26-JUL-1999; 99US-0145690.
PR	28-JUL-1999; 99US-0146222.
PR	01-SEP-1999; 99WO-US20111.
PR	08-SEP-1999; 99WO-US20594.
PR	13-SEP-1999; 99WO-US20944.
PR	15-SEP-1999; 99WO-US21090.
PR	15-SEP-1999; 99WO-US21547.
PR	05-OCT-1999; 99WO-US23088.
PR	29-OCT-1999; 99US-0162506.
PR	29-NOV-1999; 99WO-US28214.
PR	30-NOV-1999; 99WO-US28313.
PR	30-NOV-1999; 99WO-US28409.
PR	01-DEC-1999; 99WO-US28301.
PR	01-DEC-1999; 99WO-US28634.
PR	02-DEC-1999; 99WO-US28551.
PR	02-DEC-1999; 99WO-US28564.
PR	02-DEC-1999; 99WO-US28565.
PR	16-DEC-1999; 99WO-US30095.
PR	20-DEC-1999; 99WO-US31099.
PR	30-DEC-1999; 99WO-US31274.
PR	05-JAN-2000; 2000WO-US00219.
PR	06-JAN-2000; 2000WO-US00277.
PR	06-JAN-2000; 2000WO-US00376.
PR	11-FEB-2000; 2000WO-US03565.
PR	18-FEB-2000; 2000WO-US04341.
PR	18-FEB-2000; 2000WO-US04342.
PR	22-FEB-2000; 2000WO-US04414.
XX	
PA	(GETH) GENENTECH INC.
XX	
PI	Ashkenazi AJ, Baker KP, Goddard A, Gurney AL, Hebert C, Henzel W;
PI	Kabakoff RC, Lu Y, Pan J, Pennica D, Shelton DL, Smith V;
PI	Stewart TA, Tunas D, Watanabe CK, Wood WI, Yan M;
XX	
DR	WPI: 2000-572271/53.
XX	N-PSDB: AAC58622.
PT	Sixty four PRO polypeptides, useful in the diagnosis and treatment of
PT	immune related disorders, e.g. systemic lupus erythematosus, rheumatoid
PT	arthritis, osteoarthritis, thyroiditis and diabetes mellitus -
XX	
PS	Claim 33; Fig 88; 309pp; English

XX The present invention describes sixty four human PRO proteins which can
 CC be used in the treatment of immune related diseases. The human PRO
 CC proteins, anti-PRO antibodies, agonists and antagonists are useful for
 CC treating and diagnosing immune related disorders. The disorders are
 CC selected from systemic lupus erythematosus, rheumatoid arthritis,
 CC osteoarthritis, juvenile chronic arthritis, spondyloarthropathies,
 CC systemic sclerosis, idiopathic inflammatory myopathies, Sjogren's
 CC syndrome, systemic vasculitis, sarcoidosis, autoimmune hemolytic
 CC anaemia, autoimmune thrombocytopenia, thyroiditis, diabetes mellitus,
 CC immune-mediated renal disease, demyelinating diseases of the central
 CC and peripheral nervous systems, hepatobiliary diseases, inflammatory
 CC bowel disease, gluten-sensitive enteropathy and Whipple's disease,
 CC autoimmune or immune-mediated skin diseases, allergic diseases,
 CC immunological diseases of the lung, and transplantation associated
 CC diseases including graft rejection and graft-versus-host-disease.
 CC AAC8397 to AAC83578 represent PCR primers and hybridisation probes used
 CC in the isolation of human PRO sequences. AAC8579 to AAC8642 and
 CC AAB3444 to AAB3477 represent human PRO polynucleotide and protein
 CC sequences given in the exemplification of the present invention.

Sequence 310 AA:

Query Match 7.7%; Score 24; DB 21; Length 310;
 Best Local Similarity 100.0%; Pred. No. 1.2e-14;
 Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 167 PRPHYSWYRNDVPLPTDSRANPRF 190
 ||||||||||||||||||||
 DB 167 PRPHYSWYRNDVPLPTDSRANPRF 190

RESULT 7

AA96735
 ID AAY96735 standard; Protein: 310 AA.

XX AAY96735;

DT 26-SEP-2000 (first entry)

XX PRO1868, an A33 antigen homologue.

DE PRO1868, an A33 antigen homologue.

KW PRO1868; A33 antigen; secreted protein; transmembrane protein;
 anti-inflammatory; cytostatic; recombinant production; gene therapy.

XX Homo sapiens.

XX Key Location/Qualifiers

Peptide 1..30 /Label= Signal_peptide

FT Modified-site 26..31 /note= "N-myristoylation site"

FT Modified-site 69..77 /note= "Tyrosine kinase phosphorylation site"

FT Modified-site 104..107 /note= "N-glycosylation site"

FT Modified-site 106..109 /note= "N-glycosylation site"

FT Modified-site 107..110 /note= "Casein kinase II phosphorylation site"

FT Modified-site 192..195 /note= "cAMP- and cGMP-dependent protein kinase phosphorylation site"

FT Modified-site 215..220 /note= "N-glycosylation site"

FT Modified-site 226..231 /note= "N-myristoylation site"

FT Domain 243..263 /note= "N-myristoylation site"

FT Modified-site 243..248 /label= Transmembrane_domain

FT Modified-site 244..249 /note= "N-myristoylation site"

FT /note= "N-myristoylation site"
 FT Modified-site 262..267 /note= "N-myristoylation site"
 FT Modified-site 296..299 /note= "Casein kinase II phosphorylation site"

PD WO200036102-A2.

PD 22-JUN-2000.

PF 01-DEC-1999; 99WO-US28634.

XX 16-DEC-1998; 98US-0112851.

XX 16-DEC-1998; 98US-0113145.

PR 22-DEC-1998; 98US-0113511.

PR 12-JAN-1999; 98US-0115558.

PR 12-JAN-1999; 99US-0115565.

PR 12-JAN-1999; 99US-0115733.

PR 09-FEB-1999; 99US-0119341.

PR 10-FEB-1999; 99US-0119537.

PR 12-FEB-1999; 99US-0119965.

PR 02-JUN-1999; 99WO-US12252.

XX (GERTH) GENENTECH INC.

XX Borstein D, Desnoyers L, Ferrara N, Fong S, Gao W, Goddard A;
 PI Gurney AL, Pan J, Roy MA, Stewart TA, Tumas D, Watanabe CK;
 PI Wood W;

XX WPI: 2000-431586/37.

XX N-PSDB: AAA51265.

XX Isolated nucleic acid molecule encodes a PRO polypeptide which is a
 PT transmembrane polypeptide

XX Claim 1: Fig 14; 154pp: English.

XX This is PRO1868, a putative homologue of A33 antigen, a known
 CC colorectal cancer-associated marker. The invention concerns novel
 CC secreted and transmembrane proteins, designated PRO polypeptides. The
 CC cDNA and gene sequences are useful in the recombinant production of PRO
 CC polypeptides, as a hybridization probe to screen libraries to isolate
 CC cDNAs with sequence identity to PRO polypeptides or to map the gene
 CC encoding the PRO polypeptides and analyzing genetic disorders. The
 CC cDNA/gene can also be used to produce transgenic animals useful for the
 CC development and screening of therapeutically useful reagents. They can
 CC also be used in gene therapy, e.g. to replace a defective gene.

XX Sequence 310 AA;

Query Match 7.7%; Score 24; DB 21; Length 310;
 Best Local Similarity 100.0%; Pred. No. 1.2e-14;

Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 167 PRPHYSWYRNDVPLPTDSRANPRF 190
 ||||||||||||||||||||
 DB 167 PRPHYSWYRNDVPLPTDSRANPRF 190

RESULT 8

AA96294
 ID AAY96294 standard; protein: 310 AA.

XX AAY96294;

DT 16-AUG-2000 (first entry)

XX Human IGFAM-6 immunoglobulin.

DE Human IGFAM-6 immunoglobulin.

XX Human; immunoglobulin; IGFAM-6; IGFAM; immune disorder; cancer;
 KW Infection; inflammation; haematopoiesis; AIDS; allergy.

```

OS Homo sapiens.
XX
FH Key Location/Qualifiers
FT Peptide 1..30 /label= signal_peptide
FT Protein 31..310 /label= IGFAM-6
FT Domain 46..117 /label= Ig_domain
FT Domain 153..221 /label= Ig_domain
FT Domain 238..260 /label= Ig_domain
FT Domain /label= transmembrane_domain
XX
PN WO200029583-A2.
XX
PD 25-MAY-2000.
XX
PF 19-NOV-1999; 99NO-US27566.
XX
PR 19-NOV-1998; 9905-0113635.
PR 22-DEC-1998; 98US-0113635.
PR 07-APR-1999; 99US-0128194.
XX
XX (INCY-) INCYTE PHARM INC.
XX
PI Yue H, Tang YT, Corley NC, Guegler KJ, Gorgone GA, Baughn MR,
PI Lu DM, Lal P, Hillman JL, Yang J;
XX
DR WPI: 2000-387796/33.
DR N-PSDB; AAA27386.
XX
XX Immunoglobulin superfamily proteins, the agonist and antagonist of the
XX protein is useful for preventing and treating disorders associated with
XX altered levels of the protein such as cancer, immune system disorders
XX
XX Claim 1; Page 82-83; 105pp; English.
XX
XX The present sequence is the human immunoglobulin superfamily protein
XX IGFAM-6. Its gene was isolated from a cDNA library of leg
XX tissue. It is expressed in reproductive, nervous and
XX cardiovascular tissue, where cancer and inflammation are common. The
XX gene, protein, its antibodies, agonists and antagonists are suitable for
XX diagnosing and treating many diseases, including cancer, immune system
XX disorders (such as inflammation, AIDS, allergies, anaemia,
XX arteriosclerosis, asthma, atherosclerosis, cholecystitis, Crohn's
XX disease, diabetes mellitus, emphysema, Graves' disease, hepatitis,
XX multiple sclerosis, psoriasis, rheumatoid arthritis, scleroderma,
XX systemic lupus erythematosus and ulcerative colitis), complications of
XX cancer, haemodialysis and extracorporeal circulation, trauma and
XX haematopoietic cancer (such as leukaemia) and infections caused by
XX bacteria, viruses, fungi or parasites.
XX
XX Sequence 310 AA:
SQ

```

Query Match 7.7%; Score 24; DB 21; Length 310;
 Best Local Similarity 100.0%; Pred. No. 1.2e-14;
 Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

OY 167 PRPHYSWRNDVPLPTDSRANPR 190
    |||
DB 167 PRPHYSWRNDVPLPTDSRANPR 190

```

RESULT 9
 ID AAM93323 standard; Protein; 310 AA.
 AC AAM93323;
 XX
 DT 06-NOV-2001 (first entry)

```

XX
DE Human polypeptide, SEQ ID NO: 2845.
XX
XX Human; full length cDNA; cDNA synthesis; oligo-capping.
XX
XX Homo sapiens.
XX
XX EP1130094-A2.
XX
XX 05-SEP-2001.
XX
XX 07-JUL-2000; 2000EP-0114089.
XX
XX 08-JUL-1999; 99JP-0194486.
XX
XX 11-JAN-2000; 2000JP-0118774.
XX
XX 02-MAY-2000; 2000JP-0183765.
XX
XX (HELT-) HELIX RES INST.
XX
XX Ota T, Nishikawa T, Isogai T, Hayashi K, Ishii S, Kawai Y;
XX Wakamatsu A, Sugiyama T, Nagai K, Kojima S, Otsuki T, Koga H;
XX
XX WPI: 2001-524255/58.
XX
XX N-PSDB; AAK94243.
XX
XX 830 Primers useful for synthesizing full length cDNA clones and their
XX use in genetic manipulation -
XX
XX Claim 8; SEQ ID NO 2845; 1380pp + sequence listing; English.
XX
XX The invention relates to primers for synthesizing full length cDNA
XX clones. 830 cDNA molecules encoding a human protein have been
XX isolated and nucleotide sequences of 5'- and 3'-ends of the cDNA
XX molecules have been determined. Primers for synthesizing the full length
XX cDNA are useful for clarifying the function of the protein encoded by
XX the cDNA. The full length clones were obtained by construction of full
XX length enriched cDNA libraries that were synthesised by the oligo-capping
XX method. The primers enable the production of the full length cDNA
XX without any special methods. The present sequence is a polypeptide
XX encoded by a full length human cDNA of the invention.
XX Note: The sequence data for this patent did not form part of the printed
XX specification, but was obtained in CD-ROM format directly from EPO.
XX
XX Sequence 310 AA:
SQ

```

Query Match 7.7%; Score 24; DB 22; Length 310;
 Best Local Similarity 100.0%; Pred. No. 1.2e-14;
 Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

OY 167 PRPHYSWRNDVPLPTDSRANPR 190
    |||
DB 167 PRPHYSWRNDVPLPTDSRANPR 190

```

RESULT 10
 ID AAM93905 standard; Protein; 310 AA.
 AC AAM93905;
 XX
 XX 06-NOV-2001 (first entry)
 XX
 XX Human polypeptide, SEQ ID NO: 4051.
 XX
 XX Human; full length cDNA; cDNA synthesis; oligo-capping.
 XX
 XX Homo sapiens.
 XX
 XX EP1130094-A2.
 XX
 XX 05-SEP-2001.
 XX

```

PF 07-JUL-2000; 2000EP-0114089.
XX
XX 08-JUL-1999; 99JP-0194486.
PR 11-JAN-2000; 2000JP-0118774.
PR 02-MAY-2000; 2000JP-0183763.
XX
XX (HELI-) HELIX RES INST.
XX
PI Ota T, Nishikawa T, Isogai T, Hayashi K, Ishii S, Kawai Y;
PI Wakamatsu A, Sugiyama T, Nagai K, Kojima S, Otsuki T, Koga H;
XX
XX WPI: 2001-524255/58.
DR N-PSDB: AAK94867.
XX
PT 830 Primers useful for synthesizing full length cDNA clones and their
PT use in genetic manipulation -
XX
XX Claim 8: SEQ ID NO 4051, 1380bp + sequence listing; English.
XX
CC The invention relates to primers for synthesizing full length cDNA
CC clones. 830 cDNA molecules encoding a human protein have been
CC isolated and nucleotide sequences of 5'- and 3'-ends of the cDNA
CC molecules have been determined. Primers for synthesizing the full length
CC cDNA are useful for clarifying the function of the protein encoded by
CC the cDNA. The full length clones were obtained by construction of full
CC length enriched cDNA libraries that were synthesised by the oligo-capping
CC method. The primers enable the production of the full length cDNA easily
CC without any special methods. The present sequence is a polypeptide
CC encoded by a full length human cDNA of the invention.
CC Note: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in CD-ROM format directly from EPO.
XX
XX Sequence 310 AA:
SQ

```

Query Match 7.7%; Score 24; DB 22; Length 310;
 Best Local Similarity 100.0%; Pred. No. 1.2e-14;
 Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

OY 167 PRPHYSWRNDVPLPTDSRANPRF 190
   ||||||||||||||||||||||||
DB 167 prphyswyrndvplptdsranprf 190

```

RESULT 11
 AAU12440
 ID AAU12440 standard; Protein: 310 AA.
 XX
 AAU12440:
 24-OCT-2001 (first entry)
 Human PRO1868 polypeptide sequence.
 DE Human secretory and transmembrane; PRO; mammalian; cancer; lung;
 XX breast; prostate; cervical; tumour necrosis factor-alpha; TNF-alpha;
 KW cartilage; ear; proliferation; glucose; free fatty acid; skeletal muscle;
 KW adipocyte; A-peptide; factor VIIA; gene therapy.
 XX
 OS Homo sapiens.
 XX
 PN WO200140466-A2.
 XX
 PD 07-JUN-2001.
 XX
 PF 01-DEC-2000; 2000WO-US32678.
 XX
 XX 01-DEC-1999; 99WO-US28301.
 PR 01-DEC-1999; 99WO-US28634.
 PR 02-DEC-1999; 99WO-US28651.
 PR 02-DEC-1999; 99WO-US28564.
 PR 02-DEC-1999; 99WO-US28565.
 PR 09-DEC-1999; 99US-0170262.

```

PR 16-DEC-1999; 99WO-US30095.
PR 20-DEC-1999; 99WO-US30911.
PR 20-DEC-1999; 99WO-US30999.
PR 30-DEC-1999; 99WO-US31243.
PR 06-JAN-2000; 2000WO-US00277.
PR 06-JAN-2000; 2000WO-US00277.
PR 11-FEB-2000; 2000WO-US03565.
PR 11-FEB-2000; 2000WO-US03565.
PR 18-FEB-2000; 2000WO-US04341.
PR 18-FEB-2000; 2000WO-US04342.
PR 22-FEB-2000; 2000WO-US04414.
PR 24-FEB-2000; 2000WO-US04914.
PR 24-FEB-2000; 2000WO-US05004.
PR 01-MAR-2000; 2000WO-US05601.
PR 20-MAR-2000; 2000WO-US07377.
PR 21-MAR-2000; 2000WO-US07532.
PR 30-MAR-2000; 2000WO-US08439.
PR 17-MAY-2000; 2000WO-US13705.
PR 22-MAY-2000; 2000WO-US14042.
PR 30-MAY-2000; 2000WO-US14941.
PR 02-JUN-2000; 2000WO-US15264.
PR 10-NOV-2000; 2000WO-US30873.
XX
XX (GETH ) GENENTECH INC.
XX
XX Baker KP, Beresini M, Deforge L, Desnoyers L, Filvaroff E, Gao W;
XX Gerritsen ME, Goddard A, Godowski PJ, Gunney AL, Sherwood S;
XX Smith V, Stewart TA, Tumas D, Watanabe CK, Wood WT, Zhang Z;
XX
XX WPI: 2001-408281/43.
DR N-PSDB: AAS21512.
XX
XX Isolated, secretory and transmembrane PRO polypeptide used to detect
XX other PRO polypeptides. Link bioactive molecules to cells expressing
XX PRO polypeptides, and detect the presence of mammalian tumours e.g.
XX lung, breast, prostate, cervical -
XX
XX Claim 12: Fig 538: 813pp; English.
XX
CC AAU12172-AAU12446 represent novel human secretory and transmembrane
CC PRO polypeptides. The PRO polypeptides are useful to detect other
CC PRO polypeptides, to link bioactive molecules to cells expressing
CC PRO polypeptides, and to detect the presence of mammalian lung, colon,
CC breast, prostate, rectal, cervical or liver tumours by comparing PRO
CC polypeptide expression in a cell sample to that in a control sample.
CC Some of the 275 sequences are also useful to stimulate the release of
CC tumour necrosis factor-alpha (TNF-alpha) from human blood, the
CC proliferation or differentiation of chondrocytes, the proliferation or
CC gene expression in pericyte cells, the release of proteoglycans from
CC cartilage, the proliferation of inner ear utricular supporting cells or
CC of T-lymphocytes, or the release of a cytokine from peripheral blood
CC monocytes (PMNCs), or the proliferation of endothelial cells. Some of
CC the PRO polypeptides may modulate glucose or free fatty acid uptake by
CC skeletal muscle cells or by adipocytes; or inhibit binding of A-peptide
CC to factor VIIA. The PRO polypeptides can be used in assays to identify
CC molecules involved in binding interactions. The polynucleotides encoding
CC PRO polypeptides can be used to generate probes, antisense RNA/DNA,
CC transgenic or knock out animals and can be used in gene therapy.
XX
XX Sequence 310 AA:
SQ

```

Query Match 7.7%; Score 24; DB 22; Length 310;
 Best Local Similarity 100.0%; Pred. No. 1.2e-14;
 Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

OY 167 PRPHYSWRNDVPLPTDSRANPRF 190
   ||||||||||||||||||||||||
DB 167 prphyswyrndvplptdsranprf 190

```

RESULT 12
 AAB80272

ID AAB80272 standard; Protein; 310 AA.
 XX
 AC AAB80272;
 XX
 DT 24-APR-2001 (first entry)
 XX
 DE Human PRO1668 protein.
 XX
 KW Human; PRO; dermatological; antipsoriatic; cytostatic; antiinflammatory;
 KW antiparkinsonian nootropic; neuroprotective; vulnereary; cardiac;
 KW antiangiogenic; vasotropic; antiasthmatic; antihemagic; cancer;
 KW antirheumatic; antineutrophilic; antidiabetic; antiviral; diabetes;
 KW opthalmological; gene therapy; skin disease; gastrointestinal disorder;
 KW ischaemia; inflammation.
 XX
 OS Homo sapiens.
 XX
 PN WO200104311-A1.
 XX
 PE 18-JAN-2001.
 XX
 PR 22-FEB-2000; 2000MO-US04414.
 XX
 PR 07-JUL-1999; 99US-0143048.
 XX
 PR 26-JUL-1999; 99US-0145598.
 XX
 PR 28-JUL-1999; 99US-0146222.
 XX
 PR 08-SEP-1999; 99MO-US20594.
 XX
 PR 13-SEP-1999; 99MO-US20944.
 XX
 PR 15-SEP-1999; 99MO-US21090.
 XX
 PR 05-SEP-1999; 99MO-US21547.
 XX
 PR 15-OCT-1999; 99MO-US23089.
 XX
 PR 28-NOV-1999; 99MO-US28214.
 XX
 PR 30-NOV-1999; 99MO-US28313.
 XX
 PR 16-DEC-1999; 99MO-US30095.
 XX
 PR 20-DEC-1999; 99MO-US30911.
 XX
 PR 20-DEC-1999; 99MO-US30999.
 XX
 PR 05-JAN-2000; 99MO-US00219.
 XX
 PA (GETH) GENENTECH INC.
 XX
 PI Ashkenazi AJ, Botstein D, Desnoyers L, Eaton DL, Ferrara N;
 PI Flivarooff E, Fong S, Gao W, Gerber H, Gerritsen ME, Goddard A;
 PI Godowski PJ, Grimaldi CJ, Gurney AL, Hillan KJ, Kljavin IJ;
 PI Mether JP, Pan J, Paoni NF, Roy MA, Stewart TA, Tumas D;
 PI Williams PM, Wood WT;
 XX
 DR WPI; 2001-081051/09.
 XX
 N-PDB; AAF72433.
 XX
 PT Sixty one nucleic acids encoding PRO polypeptides which are useful in
 PT the treatment of skin diseases (e.g. psoriasis), cancers (e.g. lung
 PT squamous cell carcinoma) and neurodegenerative diseases (e.g.
 PT Alzheimer's disease) -
 PS
 PS Claim 1; Fig 124; 393pp; English.
 XX
 CC The present sequence is one of sixty one novel secreted and
 CC transmembrane PRO polypeptides. The PRO polypeptides are
 CC useful for treating skin diseases (e.g. psoriasis), cancers (e.g. lung
 CC squamous cell carcinoma), gastrointestinal disorders (e.g.
 CC enterocolitis), neurodegenerative diseases (e.g. Alzheimer's disease,
 CC Parkinson's disease), wound repair, cardiovascular disorders (e.g.
 CC endometrial bleeding, angiogenesis, ischaemias such as coronary
 CC ischaemia, atherosclerosis), inflammatory disorders (e.g. asthma,
 CC rheumatoid arthritis, multiple sclerosis), infertility, AIDS and
 CC diabetes and retinal disorders such as retinitis pigmentosum.
 CC The PRO nucleic acids have applications in molecular biology, including
 CC use as hybridization probes, and in chromosome and gene mapping.
 XX
 SQ Sequence 310 AA;
 XX
 Query Match 7.7%; Score 24; DB 22; Length 310;

Best Local Similarity 100.0%; Pred. No. 1.2e-14;
 Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Oy 167 PRPHYSWYRNDVPLPTDSRANPR 190
 Db 167 PRPHYSWYRNDVPLPTDSRANPR 190
 RESULT 13
 AAB80383
 ID AAB80383 standard; protein; 310 AA.
 XX
 AC AAB80383;
 XX
 DT 24-APR-2001 (first entry)
 XX
 DE Secreted protein encoded by gene #13.
 XX
 KW Secreted protein; human; autoimmune; hyperproliferation;
 KW cardiovascular; cerebrovascular; infection; food.
 XX
 OS Homo sapiens.
 XX
 PN WO200107459-A1.
 XX
 PD 01-FEB-2001.
 XX
 PR 20-JUL-2000; 2000MO-US19735.
 XX
 PR 23-JUL-1999; 99US-0145220.
 XX
 PA (HUMA-) HUMAN GENOME SCI INC.
 XX
 PI Rosen CA, Ruben SM, Ebner R, Duan RD, Ni J, Soppet DR, Moore PA;
 PI Shi Y, Lafleur DW, Olsen HS, Birse CE, Komatsoulis GA;
 XX
 DR WPI; 2001-123261/13.
 XX
 PT New isolated nucleic acid encoding 29 secreted proteins, for
 PT diagnosing, preventing and treating e.g. autoimmune,
 PT hyperproliferative, cardiovascular, and ocular diseases or disorders
 PT and microorganism infections -
 PS
 PS Claim 11; Page 538-539; 601pp; English.
 XX
 CC The present invention relates to 29 human secreted proteins. The
 CC invention is used to prevent autoimmune diseases e.g. rheumatoid
 CC arthritis, hyperproliferative disorders e.g. neoplasms of the
 CC breast or liver, cardiovascular disorders e.g. cardiac arrest,
 CC cerebrovascular disorders e.g. cerebral ischaemia, angiogenesis,
 CC nervous system disorders e.g. Alzheimer's disease, infections
 CC caused by bacteria, viruses and fungi and ocular disorders e.g.
 CC corneal infection. Also used in food preparations.
 XX
 SQ Sequence 310 AA;
 XX
 Query Match 7.7%; Score 24; DB 22; Length 310;
 Best Local Similarity 100.0%; Pred. No. 1.2e-14;
 Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Oy 167 PRPHYSWYRNDVPLPTDSRANPR 190
 Db 167 PRPHYSWYRNDVPLPTDSRANPR 190
 RESULT 14
 AAB80408
 ID AAB80408 standard; protein; 310 AA.
 XX
 AC AAB80408;
 XX
 DT 24-APR-2001 (first entry)

XX DE Secreted protein encoded by gene #38.
XX KW Secreted protein; human; autoimmune; hyperproliferation;
XX KW cardiovascular; cerebrovascular; infection; food.
XX OS Homo sapiens.
XX PN MO200107459-A1.
XX PD 01-FEB-2001.
XX PF 20-JUL-2000; 2000WO-US19735.
XX PR 23-JUL-1999; 99US-0145220.
XX PA (HUMA-) HUMAN GENOME SCI INC.
XX PI Rosen CA, Ruben SM, Ebner R, Duan RD, Ni J, Soppet DR, Moore PA;
PI Shi Y, Lafleur DW, Olsen HS, Birse CE, Komatsoulis GA;
PI WPI: 2001-123261/13.
XX PT New isolated nucleic acid encoding 29 secreted proteins, for
PT diagnosing, preventing and treating e.g. autoimmune,
PT hyperproliferative, cardiovascular, and ocular diseases or disorders
PT and microorganism infections -
XX PS Claim 11; Page 557-558; 601pp; English.
XX CC The present invention relates to 29 human secreted proteins. The
CC invention is used to prevent autoimmune diseases e.g. rheumatoid
CC arthritis, hyperproliferative disorders e.g. neoplasms of the
CC breast or liver, cardiovascular disorders e.g. cardiac arrest,
CC cerebrovascular disorders e.g. cerebral ischemia, angogenesis,
CC nervous system disorders e.g. Alzheimer's disease, infections
CC caused by bacteria, viruses and fungi and ocular disorders e.g.
CC corneal infection. Also used in food preparations.
XX SO Sequence 310 AA;

Query Match 7.7%; Score 24; DB 22; Length 310;
Best Local Similarity 100.0%; Pred. No. 1.2e-14;
Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 167 PRPHSWYRNDVPLPTDSRANRF 190
|||
167 prphswyrndvplptdsranrf 190

RESULT 15
AAB80409
ID AAB80409 standard; protein: 310 AA.
XX AC AAB80409;
XX DT 24-APR-2001 (first entry)
XX DE Secreted protein encoded by gene #39.
XX KW Secreted protein; human; autoimmune; hyperproliferation;
KW cardiovascular; cerebrovascular; infection; food.
XX OS Homo sapiens.
XX PN MO200107459-A1.
XX PD 01-FEB-2001.
XX PF 20-JUL-2000; 2000WO-US19735.
XX PR 23-JUL-1999; 99US-0145220.
XX

XX PA (HUMA-) HUMAN GENOME SCI INC.
XX PI Rosen CA, Ruben SM, Ebner R, Duan RD, Ni J, Soppet DR, Moore PA;
PI Shi Y, Lafleur DW, Olsen HS, Birse CE, Komatsoulis GA;
PI WPI: 2001-123261/13.
XX DR
XX PT New isolated nucleic acid encoding 29 secreted proteins, for
PT diagnosing, preventing and treating e.g. autoimmune,
PT hyperproliferative, cardiovascular, and ocular diseases or disorders
PT and microorganism infections -
XX PS Claim 11; Page 559-560; 601pp; English.
XX CC The present invention relates to 29 human secreted proteins. The
CC invention is used to prevent autoimmune diseases e.g. rheumatoid
CC arthritis, hyperproliferative disorders e.g. neoplasms of the
CC breast or liver, cardiovascular disorders e.g. cardiac arrest,
CC cerebrovascular disorders e.g. cerebral ischemia, angogenesis,
CC nervous system disorders e.g. Alzheimer's disease, infections
CC caused by bacteria, viruses and fungi and ocular disorders e.g.
CC corneal infection. Also used in food preparations.
XX SO Sequence 310 AA;

Query Match 7.7%; Score 24; DB 22; Length 310;
Best Local Similarity 100.0%; Pred. No. 1.2e-14;
Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 167 PRPHSWYRNDVPLPTDSRANRF 190
|||
167 prphswyrndvplptdsranrf 190
Db

RESULT 16
AAB38333
ID AAB38333 standard; protein: 311 AA.
XX AC AAB38333;
XX DT 31-JAN-2001 (first entry)
XX DE Human secreted protein encoded by gene 13 clone HAPSA79.
XX KW Immunosuppressive; antirheumatic; antiproliferative;
KW cytostatic; cardiac; vasotropic; cerebroprotective; neuroprotective;
KW nootropic; antibacterial; virucide; fungicide; ophthalmological; human;
KW vulnerary; gene therapy; infection; secreted protein.
XX OS Homo sapiens.
XX PN MO200061623-A1.
XX PD 19-OCT-2000.
XX PF 06-APR-2000; 2000WO-US08979.
XX PR 09-APR-1999; 99US-0128693.
XX PR 26-APR-1999; 99US-0130991.
XX PA (HUMA-) HUMAN GENOME SCI INC.
XX PI Ruben SM, Ni J, Komatsoulis GA, Rosen CA, Soppet DR, Shi Y;
PI Lafleur DW, Olsen HS, Ebner R, Florence KA, Moore PA, Birse CE;
PI Young PE;
PI WPI: 2000-647418/62.
XX DR
XX PT New nucleic acid molecules encoding 62 human secreted proteins for
PT diagnosing, preventing, treating or ameliorating medical conditions and
PT used as food additives or preservatives -

CC conditions, e.g. by protein or gene therapy. The genes are isolated from
CC a range of human tissues disclosed in the specification. The nucleic
CC acids, proteins, antibodies and (ant)agonists are useful in the
CC diagnosis, treatment and prevention of: (a) autoimmune diseases e.g.
CC rheumatoid arthritis; (b) hyperproliferative disorders e.g. neoplasms
CC of the breast or liver; (c) cardiovascular disorders e.g. cardiac
CC arrest; (d) cerebrovascular disorders e.g. cerebral ischemia; (e)
CC angiodysplasia; (f) nervous system disorders e.g. Alzheimer's disease; (g)
CC infections caused by bacteria, viruses and fungi; and (h) ocular
CC disorders e.g. corneal infection. The polypeptides can also be used to
CC aid wound healing and epithelial cell proliferation, to prevent skin
CC aging due to sunburn, to maintain organs before transplantation, for
CC supporting cell culture of primary tissues, to regenerate tissues and in
CC chemotaxis.

CC
XX
SQ Sequence 311 AA;

Query Match 7.7%; Score 24; DB 21; Length 311;
Best Local Similarity 100.0%; Pred. No. 1.2e-14;
Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

167 PRPHYSWRNDVPLPDSRANPRF 190
|||||
167 prphyswyrndvplpdsranprf 190

RESULT 19
AAB80431
ID AAB80431 standard: peptide; 339 AA.
XX
AC AAB80431;
XX
DT 24-APR-2001 (first entry)
XX
DE Gene #13 associated peptide #1.
XX
KW Secreted protein; human; autoimmune; hyperproliferation;
KW cardiovascular; cerebrovascular; infection; food.
XX
OS Homo sapiens.
XX
PN WO200107459-A1.
XX
PD 01-FEB-2001.
XX
PE 20-JUL-2000; 2000WO-US19735.
XX
PF 23-JUL-1999; 99US-0145220.
XX
(HUMA-) HUMAN GENOME SCI INC.
XX
PI Rosen CA, Ruben SM, Ebner R, Duan RD, Ni J, Soppet DR, Moore PA;
PI Shi Y, Lafleur DW, Olsen HS, Birse CE, Komatsoulis GA;
XX
DR WPI: 2001-123261/13.
XX
PT New isolated nucleic acid encoding 29 secreted proteins, for
PT diagnosing, preventing and treating e.g. autoimmune,
PT hyperproliferative, cardiovascular, and ocular diseases or disorders
PT and microorganism infections
XX
PS Disclosure: Page 75; 601pp; English.
XX
XX The present invention relates to 29 human secreted proteins. The
CC invention is used to prevent autoimmune diseases e.g. rheumatoid
CC arthritis, hyperproliferative disorders e.g. neoplasms of the
CC breast or liver, cardiovascular disorders e.g. cardiac arrest,
CC cerebrovascular disorders e.g. cerebral ischemia, angiodysplasia,
CC nervous system disorders e.g. Alzheimer's disease, infections
CC caused by bacteria, viruses and fungi and ocular disorders e.g.
CC corneal infection. Also used in food preparations.

SQ Sequence 339 AA;

Query Match 7.7%; Score 24; DB 22; Length 339;
Best Local Similarity 100.0%; Pred. No. 1.3e-14;
Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

167 PRPHYSWRNDVPLPDSRANPRF 190
|||||
196 prphyswyrndvplpdsranprf 219

RESULT 20
ABG12109
ID ABG12109 standard: Protein; 404 AA.
XX
AC ABG12109;
XX
DT 18-FEB-2002 (first entry)
XX
DE Novel human diagnostic protein #12100.
XX
KW Human; chromosome mapping; gene mapping; gene therapy; forensic;
KW food supplement; medical imaging; diagnostic; genetic disorder.
XX
OS Homo sapiens.
XX
PN WO200175067-A2.
XX
PD 11-OCT-2001.
XX
PF 30-MAR-2001; 2001WO-US08631.
XX
PR 31-MAR-2000; 2000US-0540217.
XX
PE 23-AUG-2000; 2000US-0649167.
XX
PA (HYSE-) HYSEQ INC.
XX
PI Drmanac RT, Liu C, Tang YT;
XX
DR WPI: 2001-639362/73.
XX
DN N-PSDB; AAS76296.
XX
PT New isolated polynucleotide and encoded polypeptides, useful in
PT diagnostics, forensics, gene mapping, identification of mutations
PT responsible for genetic disorders or other traits and to assess
PT biodiversity
XX
PS Claim 20; SEQ ID NO 42468; 103pp; English.
XX
XX The invention relates to isolated polynucleotide (I) and
CC polypeptide (II) sequences. (I) is useful as hybridisation probes,
CC polymerase chain reaction (PCR) primers, oligomers, and for chromosome
CC and gene mapping, and in recombinant production of (II). The
CC polynucleotides are also used in diagnostics as expressed sequence tags
CC for identifying expressed genes. (I) is useful in gene therapy techniques
CC to restore normal activity of (II) or to treat disease states involving
CC (II). (II) is useful for generating antibodies against it, detecting or
CC quantitating a polypeptide in tissue, as molecular weight markers and as
CC a food supplement. (II) and its binding partners are useful in medical
CC imaging of sites expressing (II). (I) and (II) are useful for treating
CC disorders involving aberrant protein expression or biological activity.
CC The polypeptide and polynucleotide sequences have applications in
CC diagnostics, forensics, gene mapping, identification of mutations
CC responsible for genetic disorders or other traits to assess biodiversity
CC and to produce other types of data and products dependent on DNA and
CC amino acid sequences. ABG00010-ABG30377 represent novel human
CC diagnostic amino acid sequences of the invention.
CC Note: The sequence data for this patent did not appear in the printed
CC specification, but was obtained in electronic format directly from WIPO
CC at ftp.wipo.int/pub/published_pct_sequences.

Sequence 404 AA;

Query Match 7.7%; Score 24; DB 22; Length 404;
 Best Local Similarity 100.0%; Pred. No. 1.5e-14;
 Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 167 PRPHYSWRNDVLPIDSRANPR 190
 |||
 Db 214 prphyswyrndvlpidsranprf 237

RESULT 21

ABG22401
 ID ABG22401 standard; Protein: 361 AA.

AC ABG22401;

DT 18-FEB-2002 (first entry)

XX Novel human diagnostic protein #22392.

KW Human; chromosome mapping; gene mapping; gene therapy; forensic;
 KM food supplement; medical imaging; diagnostic; genetic disorder.

XX Homo sapiens.

OS WO200175067-A2.

PN 11-OCT-2001.

PD 30-MAR-2001; 2001WO-US08631.

PF 31-MAR-2000; 2000US-0540217.

PR 23-AUG-2000; 2000US-0649167.

XX (HYSE-) HYSEQ INC.

PA Drmanac RT, Liu C, Tang YT;

PI WPI; 2001-639362/73.

XX N-PSDB; AAS86585.

XX New isolated polynucleotide and encoded polypeptides, useful in
 PT diagnostics, forensics, gene mapping, identification of mutations
 PT responsible for genetic disorders or other traits and to assess
 PT biodiversity -

XX Claim 20; SEQ ID NO 52760; 103pp; English.

CC The invention relates to isolated polynucleotide (I) and
 CC polypeptide (II) sequences. (I) is useful as hybridisation probes,
 CC polymerase chain reaction (PCR) primers, oligomers, and for chromosome
 CC and gene mapping, and in recombinant production of (II). The
 CC polynucleotides are also used in diagnostics as expressed sequence tags
 CC for identifying expressed genes. (I) is useful in gene therapy techniques
 CC to restore normal activity of (II) or to treat disease states involving
 CC (II). (II) is useful for generating antibodies against it, detecting or
 CC quantitating a polypeptide in tissue, as molecular weight markers and as
 CC a food supplement. (II) and its binding partners are useful in medical
 CC imaging of sites expressing (II). (I) and (II) are useful for treating
 CC disorders involving aberrant protein expression or biological activity.
 CC The polypeptide and polynucleotide sequences have applications in
 CC diagnostics, forensics, gene mapping, identification of mutations
 CC responsible for genetic disorders or other traits to assess biodiversity
 CC and to produce other types of data and products dependent on DNA and
 CC amino acid sequences. ABG00010-ABG30377 represent novel human
 CC diagnostic amino acid sequences of the invention.
 CC Note: The sequence data for this patent did not appear in the printed
 CC specification, but was obtained in electronic format directly from WIPO
 CC at ftp.wipo.int/pub/published_pct_sequences.

XX Sequence 361 AA;

Query Match 6.8%; Score 21; DB 22; Length 361;
 Best Local Similarity 100.0%; Pred. No. 1e-11;
 Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 170 HYSWRNDVLPIDSRANPR 190
 |||
 Db 179 hyswyrndvlpidsranprf 199

RESULT 22

ABG22398
 ID ABG22398 standard; Protein: 68 AA.

AC ABG22398;

DT 18-FEB-2002 (first entry)

XX Novel human diagnostic protein #22389.

KW Human; chromosome mapping; gene mapping; gene therapy; forensic;
 KM food supplement; medical imaging; diagnostic; genetic disorder.

XX Homo sapiens.

OS WO200175067-A2.

PN 11-OCT-2001.

PD 30-MAR-2001; 2001WO-US08631.

PF 31-MAR-2000; 2000US-0540217.

PR 23-AUG-2000; 2000US-0649167.

XX (HYSE-) HYSEQ INC.

PA Drmanac RT, Liu C, Tang YT;

PI WPI; 2001-639362/73.

XX N-PSDB; AAS86585.

XX New isolated polynucleotide and encoded polypeptides, useful in
 PT diagnostics, forensics, gene mapping, identification of mutations
 PT responsible for genetic disorders or other traits and to assess
 PT biodiversity -

XX Claim 20; SEQ ID NO 52757; 103pp; English.

CC The invention relates to isolated polynucleotide (I) and
 CC polypeptide (II) sequences. (I) is useful as hybridisation probes,
 CC polymerase chain reaction (PCR) primers, oligomers, and for chromosome
 CC and gene mapping, and in recombinant production of (II). The
 CC polynucleotides are also used in diagnostics as expressed sequence tags
 CC for identifying expressed genes. (I) is useful in gene therapy techniques
 CC to restore normal activity of (II) or to treat disease states involving
 CC (II). (II) is useful for generating antibodies against it, detecting or
 CC quantitating a polypeptide in tissue, as molecular weight markers and as
 CC a food supplement. (II) and its binding partners are useful in medical
 CC imaging of sites expressing (II). (I) and (II) are useful for treating
 CC disorders involving aberrant protein expression or biological activity.
 CC The polypeptide and polynucleotide sequences have applications in
 CC diagnostics, forensics, gene mapping, identification of mutations
 CC responsible for genetic disorders or other traits to assess biodiversity
 CC and to produce other types of data and products dependent on DNA and
 CC amino acid sequences. ABG00010-ABG30377 represent novel human
 CC diagnostic amino acid sequences of the invention.
 CC Note: The sequence data for this patent did not appear in the printed
 CC specification, but was obtained in electronic format directly from WIPO
 CC at ftp.wipo.int/pub/published_pct_sequences.

XX Sequence 68 AA;

QY 244 GIGGVLVVL 253
 |||||
 Db 135 gIlgvLVlVl 144

RESULT 25

AAW01191
 ID AAW01191 standard; Peptide; 48 AA.

XX
 AC AAW01191;

DT 15-MAR-1997 (first entry)

DE Serine protease PfSP12-52 N-terminal fragment.

XX Flea; midgut; serine protease; PfSP12-52; vaccine;

KW domestic animal; infestation; insecticide; protease-inhibitor;

XX controlled release formulation; synergist.

PH Siphonaptera sp.

FT Key Location/Qualifiers

FT Peptide 1..19 /note- "Signal peptide"

FT Peptide 20..48 /note- "Part of N-terminal fragment AAW01177"

PN MO9611706-A1.

PD 25-APR-1996.

PF 18-OCT-1995; 95WO-US14442.

XX 07-JUN-1995; 95US-0485455.

PR 18-OCT-1994; 94US-0326773.

PR 07-JUN-1995; 95US-0482130.

PR 07-JUN-1995; 95US-0484211.

PR 07-JUN-1995; 95US-0485443.

XX (PARA-) PARAVAX INC.

PA (HESK-) HESKA CORP.

PI Afstren A, Dale B, Frank GR, Grieve RB, Heath A;

PI Hunter SW, Rushlow KE, Stiegler GL, Yamanaka M;

XX WPI; 1996-221762/22.

DR N-PSDB; AAT40836.

XX DNA encoding flea serine protease and aminopeptidase - useful in

XX vaccines to protect animals from flea infestation.

PS Claim 71; Page 163; 241pp: English.

XX This sequence represents a partial N-terminal sequence of flea

CC midgut serine protease, SP12-52, isolated from a flea CDNA

CC library by homology with conserved serine protease sequences.

CC The sequence contains part of N-terminal sequence AAW01177, and other

CC SP12 sequences are given in AAW01197 (C-terminal sequence) and

CC AAW01209 (PfSP12-69). The peptide may be used in a vaccine for

CC protection of domestic animals from flea infestation, or in

CC isolation of protease-inhibitors, which may be used in controlled

CC release formulations to reduce the flea burden on and around the

CC animal. The inhibitors may be included in insecticidal

CC compositions to increase efficacy of other active agents, by

CC reducing proteolytic activity in the flea midgut.

XX Sequence 48 AA;

SQ

Query Match 2.6%; Score 8; DB 17; Length 48;
 Best Local Similarity 100.0%; Pred. No. 5;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 252 VLIIVLAVI 259
 |||||
 Db 1 VLIIVLAVI 8

RESULT 26

AAB50588
 ID AAB50588 standard; Protein; 48 AA.

XX
 AC AAB50588;

DT 19-MAR-2001 (first entry)

DE Flea serine protease nFSP12 N-terminal protein sequence #65.

XX Flea; cat flea; serine protease; aminopeptidase; cysteine protease;

KW flea infestation; proteolytic; insecticide; vaccine; cat; dog; flea;

KW Ctenocephalides felis; Ctenocephalides canis; Pulex irritans;

XX ectoparasite.

OS Ctenocephalides felis.

PN US6150125-A.

PD 21-NOV-2000.

PF 24-APR-1996; 96US-0639075.

XX 13-DEC-1991; 91US-0806482.

PR 18-OCT-1994; 94US-0326773.

PR 07-JUN-1995; 95US-0482130.

PR 07-JUN-1995; 95US-0484211.

PR 07-JUN-1995; 95US-0485443.

PR 07-JUN-1995; 95US-0485455.

PR 15-AUG-1997; 97WO-US14442.

XX (HESK-) HESKA CORP.

PI Gaines PJ, Silver G, Rushlow KE, Hunter SW, Frank GR, Stiegler GL;

PI Grieve RB;

XX WPI; 2001-136374/14.

DR N-PSDB; AAC90844.

XX New isolated flea proteins with proteolytic activity, useful for

XX preventing and reducing flea infestations in mammals especially cats

XX and dogs -

PS Claim 1; Column 47-48; 150pp: English.

XX The present invention describes isolated flea serine protease,

CC aminopeptidase and cysteine protease proteins (I). Also described is a

CC method for identifying a compound (II) capable of inhibiting flea

CC protease activity comprising: (a) contacting (I) with a protease

CC substrate and a putative inhibitory compound, where (I) has proteolytic

CC activity in the absence of the compound; and (b) determining if the

CC compound inhibits protease activity by detecting cleavage of the

CC protease substrates; where decreased cleavage of the protease substrate

CC indicates an inhibitory compound. (I), nucleic acid molecules encoding

CC (I), and antibodies immunospecific for (I) and (II) are useful for

CC preventing and reducing flea infestations, particularly the species

CC Ctenocephalides felis (cat fleas), Ctenocephalides canis (dog fleas) and

CC Pulex irritans, in animals, preferably cats and dogs. They are also

CC useful for reducing infestation by other ectoparasites, preferably

CC mosquitoes, midges, sandflies, blackflies, ticks and Rhodnius. AAC90818

CC to AAC90913 and AAB50551 to AAB50644 represent sequences used in the

CC exemplification of the present invention.

XX Sequence 48 AA;

SQ

Query Match 2.6%; Score 8; DB 22; Length 48;
 Best Local Similarity 100.0%; Pred. No. 5;

Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 252 VLVIVAVI 259
|||||||
Db 1 VLVIVAVI 8

RESULT 27
AAG81659
ID AAG81659 standard; Protein; 204 AA.
XX
AC AAG81659;
XX
DT 03-SEP-2001 (first entry)
XX
DE S. epidermidis open reading frame protein sequence SEQ ID NO:412.
XX
KM Staphylococcus epidermidis SRI strain; Infection; diagnosis;
KW vaccination; endocarditis.
XX
XX Staphylococcus epidermidis.
XX
FN WO200134809-A2.
XX
PD 17-MAY-2001.
XX
PF 09-NOV-2000; 2000WO-US30782.
XX
PR 09-NOV-1999; 99US-0164258.
XX
PA (GLAX) GLAXO GROUP LTD.
XX
PI Kimerly WJ;
XX
PT WPI: 2001-316495/33.
DR N-PSDB; AAH52509.
XX
PT Nucleic acids encoding polypeptides from Staphylococcus epidermidis,
PS useful for vaccinating against infections, e.g. endocarditis -
XX
PS Claim 18; Page 151; 2188bp; English.
XX
CC AAH52304 to AAH53970 represent nucleic acids (I) encoding polypeptides
CC (II), given in AAG81454 to AAG83120, from Staphylococcus epidermidis.
CC (I) and (II) can have antibacterial activity and therefore can be used
CC in vaccination. The nucleic acids (I) may be used to produce the
CC S. epidermidis polypeptides (II) via the production of vectors
CC containing them which are used to produce hosts cells which express the
CC polypeptides. The polypeptides (II) (and/or nucleic acids) may then be
CC used to vaccinate subjects and to raise antibodies against the bacteria.
CC The polypeptides may also be used to assay for other inhibitors of their
CC activity and therefore identify compounds that may be used for the
CC treatment of S. epidermidis infections, e.g. endocarditis. AAH53971 to
CC AAH55090 represent specifically claimed S. epidermidis genomic DNA
CC polynucleotide sequences from the present invention. AAH55091 to
CC AAH55098 represent oligonucleotide sequences and primers which are used
CC in the exemplification of the present invention.
CC N.B. The present invention specifically claims all the polynucleotide
CC sequences given in the sequence listing of the present specification,
CC however the sequence listing only goes up to SEQ ID NO:4454 so even
CC though sequences are given in the disclosure for SEQ ID NO:4465 to 4472,
CC no sequences are present for SEQ ID NO:4455 to 4464.
XX
SQ Sequence 204 AA;

Query Match 2.6%; Score 8; DB 22; Length 204;
Best Local Similarity 100.0%; Pred. No. 18;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 242 IAGIIGGV 249
|||||||
Db 181 IAGIIGGV 188

RESULT 28
AAG82062
ID AAG82062 standard; Protein; 204 AA.
XX
AC AAG82062;
XX
DT 03-SEP-2001 (first entry)
XX
DE S. epidermidis open reading frame protein sequence SEQ ID NO:1218.
XX
KM Staphylococcus epidermidis SRI strain; Infection; diagnosis;
KW vaccination; endocarditis.
XX
OS Staphylococcus epidermidis.
XX
PN WO200134809-A2.
XX
PD 17-MAY-2001.
XX
PF 09-NOV-2000; 2000WO-US30782.
XX
PR 09-NOV-1999; 99US-0164258.
XX
PA (GLAX) GLAXO GROUP LTD.
XX
PI Kimerly WJ;
XX
PT WPI: 2001-316495/33.
DR N-PSDB; AAH52912.
XX
PT Nucleic acids encoding polypeptides from Staphylococcus epidermidis,
PS useful for vaccinating against infections, e.g. endocarditis -
XX
PS Claim 18; Page 349; 2188bp; English.
XX
CC AAH52304 to AAH53970 represent nucleic acids (I) encoding polypeptides
CC (II), given in AAG81454 to AAG83120, from Staphylococcus epidermidis.
CC (I) and (II) can have antibacterial activity and therefore can be used
CC in vaccination. The nucleic acids (I) may be used to produce the
CC S. epidermidis polypeptides (II) via the production of vectors
CC containing them which are used to produce hosts cells which express the
CC polypeptides. The polypeptides (II) (and/or nucleic acids) may then be
CC used to vaccinate subjects and to raise antibodies against the bacteria.
CC The polypeptides may also be used to assay for other inhibitors of their
CC activity and therefore identify compounds that may be used for the
CC treatment of S. epidermidis infections, e.g. endocarditis. AAH53971 to
CC AAH55090 represent specifically claimed S. epidermidis genomic DNA
CC polynucleotide sequences from the present invention. AAH55091 to
CC AAH55098 represent oligonucleotide sequences and primers which are used
CC in the exemplification of the present invention.
CC N.B. The present invention specifically claims all the polynucleotide
CC sequences given in the sequence listing of the present specification,
CC however the sequence listing only goes up to SEQ ID NO:4454 so even
CC though sequences are given in the disclosure for SEQ ID NO:4465 to 4472,
CC no sequences are present for SEQ ID NO:4455 to 4464.
XX
SQ Sequence 204 AA;

Query Match 2.6%; Score 8; DB 22; Length 204;
Best Local Similarity 100.0%; Pred. No. 18;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 242 IAGIIGGV 249
|||||||
Db 181 IAGIIGGV 188

RESULT 29
AAW41974
ID AAW41974 standard; Protein; 246 AA.

GenCore version 4.5
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OM protein - protein search, using sw model

Run on: September 19, 2002, 17:32:47 : Search time 23.64 Seconds
(without alignments)
320.302 Million cell updates/sec

Title: US-09-524-531C-13

Perfect score: 310

Sequence: 1 MALSRRLRLRLVRLPFFL.....VNYIRTSSEGGDFRRKSSFVI 310

Scoring table:

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Gapop 60.0, Gapext 60.0

Searched: 231628 seqs, 24425594 residues

Hit size: 0

Total number of hits satisfying chosen parameters: 231628

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 75 summaries

Database:

Issued_Patents_AA:*
1: /cgn2_6/ptodata/2/1aa/5A_COMB.pep:*
2: /cgn2_6/ptodata/2/1aa/5B_COMB.pep:*
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4: /cgn2_6/ptodata/2/1aa/6B_COMB.pep:*
5: /cgn2_6/ptodata/2/1aa/PCTUS_COMB.pep:*
6: /cgn2_6/ptodata/2/1aa/Backfilltest.pep:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	8	2.6	48	1	US-08-485-455D-65
2	8	2.6	48	2	US-08-482-130C-65
3	8	2.6	48	2	US-08-484-211C-65
4	8	2.6	48	3	US-08-906-769-65
5	8	2.6	48	3	US-08-906-616-65
6	8	2.6	48	4	US-08-817-795-65
7	8	2.6	48	4	US-08-485-443B-65
8	8	2.6	48	4	US-08-639-075A-65
9	8	2.6	48	4	US-09-012-431-65
10	8	2.6	48	4	US-09-012-692-65
11	8	2.6	48	4	US-08-906-613-65
12	8	2.6	48	5	PCT-US95-14442A-65
13	8	2.6	246	3	US-08-906-769-127
14	8	2.6	246	3	US-08-906-616-127
15	8	2.6	246	4	US-08-639-075A-127
16	8	2.6	246	4	US-09-012-431-127
17	8	2.6	246	4	US-09-012-692-127
18	8	2.6	246	4	US-08-906-613-127
19	8	2.3	170	3	US-09-189-035-2
20	7	2.3	170	4	US-09-382-086-2
21	7	2.3	249	2	US-09-154-802-1
22	7	2.3	249	3	US-09-373-029-1
23	7	2.3	758	4	US-09-413-814-32
24	7	2.3	775	1	US-07-603-133B-15
25	7	2.3	775	1	US-07-603-133B-16
26	7	2.3	1186	2	US-08-861-464-8
27	7	2.3	1186	2	US-08-396-001-8

28	7	2.3	1186	4	US-09-323-433A-8	Sequence 8, Appl1
29	7	2.3	1395	4	US-09-540-245A-15	Sequence 15, Appl1
30	6	1.9	14	2	US-08-685-589A-164	Sequence 164, App
31	6	1.9	27	4	US-09-227-357-276	Sequence 276, App
32	6	1.9	29	1	US-07-960-510-4	Sequence 4, Appl1
33	6	1.9	29	1	US-07-960-510-5	Sequence 5, Appl1
34	6	1.9	29	1	US-07-960-510-6	Sequence 6, Appl1
35	6	1.9	29	1	US-07-960-510-7	Sequence 7, Appl1
36	6	1.9	35	6	5171673-7	Patent No. 5171673
37	6	1.9	45	3	US-09-053-197A-72	Sequence 72, Appl1
38	6	1.9	45	3	US-09-085-761A-77	Sequence 77, Appl1
39	6	1.9	48	1	US-07-796-361A-15	Sequence 15, Appl1
40	6	1.9	93	1	US-08-591-498-1	Sequence 1, Appl1
41	6	1.9	115	2	US-08-672-345C-108	Sequence 108, App
42	6	1.9	115	2	US-08-672-345C-108	Sequence 108, App
43	6	1.9	115	4	US-09-214-095D-18	Sequence 18, Appl1
44	6	1.9	115	4	US-09-214-095D-18	Sequence 18, Appl1
45	6	1.9	123	2	US-08-822-573-2	Sequence 2, Appl1
46	6	1.9	132	1	US-08-591-498-16	Sequence 16, Appl1
47	6	1.9	145	4	US-09-096-244-2	Sequence 2, Appl1
48	6	1.9	158	2	US-08-846-762-2	Sequence 2, Appl1
49	6	1.9	208	2	US-08-700-607-7	Sequence 7, Appl1
50	6	1.9	219	1	US-08-441-629-13	Sequence 13, Appl1
51	6	1.9	219	3	US-08-776-207-13	Sequence 13, Appl1
52	6	1.9	219	5	PCT-US95-09172-13	Sequence 13, Appl1
53	6	1.9	228	2	US-08-417-495-27	Sequence 27, Appl1
54	6	1.9	228	2	US-08-284-391B-27	Sequence 27, Appl1
55	6	1.9	228	4	US-09-218-950-27	Sequence 27, Appl1
56	6	1.9	228	5	PCT-US92-01785-27	Sequence 27, Appl1
57	6	1.9	228	5	PCT-US95-00454-27	Sequence 27, Appl1
58	6	1.9	236	3	US-08-705-771-19	Sequence 19, Appl1
59	6	1.9	235	3	US-08-906-769-91	Sequence 91, Appl1
60	6	1.9	255	3	US-08-906-616-91	Sequence 91, Appl1
61	6	1.9	255	4	US-08-817-795-91	Sequence 91, Appl1
62	6	1.9	255	4	US-08-639-075A-91	Sequence 91, Appl1
63	6	1.9	255	4	US-09-012-431-91	Sequence 91, Appl1
64	6	1.9	255	4	US-09-012-692-91	Sequence 91, Appl1
65	6	1.9	255	4	US-08-906-613-91	Sequence 91, Appl1
66	6	1.9	255	5	PCT-US95-14442A-91	Sequence 91, Appl1
67	6	1.9	265	2	US-08-807-044-1	Sequence 1, Appl1
68	6	1.9	266	6	5175383-5	Patent No. 5175383
69	6	1.9	267	1	US-08-462-169B-13	Sequence 13, Appl1
70	6	1.9	267	2	US-08-700-607-8	Sequence 8, Appl1
71	6	1.9	267	3	US-09-103-079-13	Sequence 13, Appl1
72	6	1.9	268	1	US-08-439-725A-12	Sequence 12, Appl1
73	6	1.9	268	1	US-08-464-550A-17	Sequence 17, Appl1
74	6	1.9	268	2	US-08-207-412B-12	Sequence 12, Appl1
75	6	1.9	268	2	US-08-867-471-12	Sequence 12, Appl1

ALIGNMENTS

RESULT 1
US-08-485-455D-65
Sequence 65, Application US/08485455D
Patent No. 5712143
GENERAL INFORMATION:
APPLICANT: Grieve, Robert B.
APPLICANT: Rushlow, Keith E.
APPLICANT: Wu Hunter, Shirley
APPLICANT: Frank, Glenn R.
APPLICANT: Stiegler, Gary L.
TITLE OF INVENTION: FLEA PROTEASE PROTEINS, NUCLEIC ACID
NUMBER OF INVENTION: 79
CORRESPONDENCE ADDRESS:
ADDRESS: Sheridan Ross P.C.
CITY: Denver
STATE: Colorado
COUNTRY: USA
ZIP: 80203

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/485,455D
FILING DATE: 07-JUN-1995
CLASSIFICATION: 424
ATTORNEY/AGENT INFORMATION:
NAME: Connell, Gary J.
REGISTRATION NUMBER: 32,020
REFERENCE/DOCKET NUMBER: 2618-25-C1-3
TELECOMMUNICATION INFORMATION:
TELEPHONE: (303) 863-9700
TELEFAX: (303) 863-0223
INFORMATION FOR SEQ ID NO: 65:
SEQUENCE CHARACTERISTICS:
LENGTH: 48 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-485-455D-65

Query Match 2.6%; Score 8; DB 1; Length 48;
Best Local Similarity 100.0%; Pred. No. 1.8;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 252 VLIYLAIV 259
| | | | | | | |
Db 1 VLIYLAIV 8

RESULT 2
US-08-482-130C-65
Sequence 65, Application US/08482130C
Patent No. 5962257
GENERAL INFORMATION:
APPLICANT: Grieve, Robert B.
APPLICANT: Rushlow, Keith E.
APPLICANT: Wu Hunter, Shirley
APPLICANT: Frank, Glenn R.
APPLICANT: Stiegler, Gary L.
TITLE OF INVENTION: FLEA PROTEASE PROTEINS, NUCLEIC ACID
TITLE OF INVENTION: MOLECULES, AND USES THEREOF
NUMBER OF SEQUENCES: 79
CORRESPONDENCE ADDRESS:
ADDRESSEE: Sheridan Ross P.C.
STREET: 1700 Lincoln Street, suite 3500
CITY: Denver
STATE: Colorado
COUNTRY: USA
ZIP: 80203
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/482,130C
FILING DATE: 07-JUN-1995
CLASSIFICATION: 424
ATTORNEY/AGENT INFORMATION:
NAME: Connell, Gary J.
REGISTRATION NUMBER: 32,020
REFERENCE/DOCKET NUMBER: 2618-25-C1-1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (303) 863-9700
TELEFAX: (303) 863-0223
INFORMATION FOR SEQ ID NO: 65:
SEQUENCE CHARACTERISTICS:
LENGTH: 48 amino acids

TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-482-130C-65

Query Match 2.6%; Score 8; DB 2; Length 48;
Best Local Similarity 100.0%; Pred. No. 1.8;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 252 VLIYLAIV 259
| | | | | | | |
Db 1 VLIYLAIV 8

RESULT 3
US-08-484-211C-65
Sequence 65, Application US/08484211C
Patent No. 5972645
GENERAL INFORMATION:
APPLICANT: Grieve, Robert B.
APPLICANT: Rushlow, Keith E.
APPLICANT: Wu Hunter, Shirley
APPLICANT: Frank, Glenn R.
APPLICANT: Stiegler, Gary L.
TITLE OF INVENTION: FLEA PROTEASE PROTEINS, NUCLEIC ACID
TITLE OF INVENTION: MOLECULES, AND USES THEREOF
NUMBER OF SEQUENCES: 79
CORRESPONDENCE ADDRESS:
ADDRESSEE: Sheridan Ross P.C.
STREET: 1700 Lincoln Street, suite 3500
CITY: Denver
STATE: Colorado
COUNTRY: USA
ZIP: 80203
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/484,211C
FILING DATE: 07-JUN-1995
CLASSIFICATION: 424
ATTORNEY/AGENT INFORMATION:
NAME: Connell, Gary J.
REGISTRATION NUMBER: 32,020
REFERENCE/DOCKET NUMBER: 2618-25-C1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (303) 863-9700
TELEFAX: (303) 863-0223
INFORMATION FOR SEQ ID NO: 65:
SEQUENCE CHARACTERISTICS:
LENGTH: 48 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-484-211C-65

Query Match 2.6%; Score 8; DB 2; Length 48;
Best Local Similarity 100.0%; Pred. No. 1.8;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 252 VLIYLAIV 259
| | | | | | | |
Db 1 VLIYLAIV 8

RESULT 4
US-08-906-769-65
Sequence 65, Application US/08906769
Patent No. 6077687

GenCore version 4.5
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OM protein - protein search, using sw model

Run on: September 19, 2002, 17:33:22 ; Search time 30.81 Seconds
(without alignments)
966.819 Million cell updates/sec

Title: US-09-524-531C-13

Perfect score: 310
Sequence: 1 MALSRRLRLRLRLRLPHFL.....VNYTRTSECDPRHKSFFVI 310

Scoring table: OLIGO
Gapop 60.0 , Gapept 60.0

Searched: 283138 seqs, 96089334 residues

Database size: 0

Total number of hits satisfying chosen parameters: 283138

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Listing first 75 summaries

Database :
1: PIR_71:*
2: PIR1:*
3: PIR2:*
4: PIR3:*
5: PIR4:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	8	2.6	146	2 F70313	hypothetical prote
2	8	2.6	204	2 A88919	conserved hypothet
3	8	2.6	208	2 D83431	type III export pr
4	8	2.6	506	2 T02400	probable beta-gluc
5	8	2.6	959	2 E85276	hypothetical prote
6	7	2.3	118	1 GLYC	gene 1 protein - S
7	7	2.3	128	2 C83448	succinate dehydrog
8	7	2.3	137	2 B41047	exsb protein - Pse
9	7	2.3	137	2 E83433	exoenzyme S synthe
10	7	2.3	173	2 B90241	hypothetical prote
11	7	2.3	177	2 E85833	partial probable s
12	7	2.3	177	2 B90988	hypothetical prote
13	7	2.3	194	2 T28889	hypothetical prote
14	7	2.3	208	2 T03627	GTP-binding protel
15	7	2.3	208	2 T01588	GTP-binding protel
16	7	2.3	214	2 T47268	phosphatidylserine
17	7	2.3	224	2 D71915	phosphogluconase, cyto
18	7	2.3	232	2 S60984	hypothetical prote
19	7	2.3	246	2 F91238	PTS system, fructo
20	7	2.3	246	2 B86086	PTS system, fructo
21	7	2.3	249	2 G84224	hypothetical prote
22	7	2.3	255	2 B72474	hypothetical prote
23	7	2.3	267	2 B83705	phosphonates trans
24	7	2.3	269	1 C69651	prolipoprotein dia
25	7	2.3	280	2 H83623	probable chemotaxi
26	7	2.3	287	2 E75159	hypothetical prote
27	7	2.3	322	2 E69009	cation antiporter
28	7	2.3	324	2 T27302	hypothetical prote
29	7	2.3	332	1 DEBYG1	glyceroldehyde-3-p

30	7	2.3	332	1 DEBYG2	glyceroldehyde-3-p
31	7	2.3	335	2 C72485	probable high-affi
32	7	2.3	332	2 S29813	glyceroldehyde-3-p
33	7	2.3	337	2 A12360	hypothetical prote
34	7	2.3	348	2 E84143	L-iditol 2-dehydro
35	7	2.3	359	2 H65201	PTS system, fructo
36	7	2.3	380	2 H75159	3-isopropylmalate
37	7	2.3	387	2 E90533	nitrogen fixation
38	7	2.3	402	2 G83367	hypothetical prote
39	7	2.3	421	2 H86217	protein T2767.16 (
40	7	2.3	422	2 D70110	aminotransferase (
41	7	2.3	429	2 C97500	hypothetical prote
42	7	2.3	429	2 AC2718	MFS permease (limp
43	7	2.3	445	2 S75859	seryl-tRNA(Sec) se
44	7	2.3	452	2 A70389	hypothetical prote
45	7	2.3	473	2 T28118	hypothetical prote
46	7	2.3	491	1 O4R8PC	cytochrome P450 2B
47	7	2.3	491	2 S31277	cytochrome P450 2B
48	7	2.3	491	2 S31278	cytochrome P450 2B
49	7	2.3	491	2 S35666	cytochrome P450 2B
50	7	2.3	505	2 C69666	NADH dehydrogenase
51	7	2.3	512	2 B69146	glutathione-regula
52	7	2.3	544	2 AE3375	methionyl-tRNA syn
53	7	2.3	554	2 S50309	hypothetical prote
54	7	2.3	573	2 AF1418	ABC transporter, A
55	7	2.3	573	2 AH1793	ABC transporter, A
56	7	2.3	578	2 G82950	conserved hypothet
57	7	2.3	586	2 S63386	HOL1 protein - yea
58	7	2.3	667	2 T35491	probable serine/th
59	7	2.3	697	2 S09254	collicin D - Escher
60	7	2.3	703	2 T32572	hypothetical prote
61	7	2.3	758	1 S45477	SEC18 protein - ye
62	7	2.3	774	1 VPXRMT	outer layer protel
63	7	2.3	775	1 VPXRMT	outer layer protel
64	7	2.3	776	1 VPXRW9	outer layer protel
65	7	2.3	782	2 E90427	hypothetical prote
66	7	2.3	805	2 A64453	H+-transporting AT
67	7	2.3	810	2 AP2425	phenylalanyl-tRNA
68	7	2.3	832	2 G97146	probable permease
69	7	2.3	841	2 A27832	cell division cont
70	7	2.3	840	2 T01011	hypothetical prote
71	7	2.3	1105	2 B64973	yeast protein - Esc
72	7	2.3	1213	2 S42368	guanine nucleotide
73	7	2.3	1400	2 A71514	probable protein e
74	7	2.3	1785	2 T21558	hypothetical prote
75	7	2.3	1929	2 T21559	hypothetical prote

ALIGNMENTS

RESULT 1
F70313
hypothetical protein aq_142 - Aquifex aeolicus
C:Species: Aquifex aeolicus
C:Date: 08-May-1998 #sequence_revision 08-May-1998 #text_change 04-Mar-2000
C:Accession: F70313
R:Decker, G.; Warren, P.V.; Gaasterland, T.; Young, W.G.; Lenox, A.L.; Graham, D.E.; V.
Nature 392, 353-358, 1998
A:Title: The complete genome of the hyperthermophilic bacterium Aquifex aeolicus.
A:Reference number: AF0300; MUID:98196666
A:Accession: F70313
A>Status: preliminary; nucleic acid sequence not shown; translation not shown
A:Molecule type: DNA
A:Residues: 1-146 <AOQ>
A:Cross-references: GB:AE000675; NID:g2982863; PIDN:AAC06501.1; PID:g2982881; GB:AE00
A:Experimental source: strain VFS
C:Genetics:
A:Gene: aq_142
C:Superfamily: Aquifex aeolicus hypothetical protein aq_142

Query Match	2.6%;	Score 8;	DB 2;	Length 146;
Best Local Similarity	100.0%;	Pred. No. 2.6;		
Matches	8;	Conservative	0;	Mismatches
			0;	Indels
				Gaps
				0;

QY	252	VLIVLAVI	255
Db	5	VLIVLAVI	12

RESULT 2
A89919

conserved hypothetical protein SA1250 [imported] - Staphylococcus aureus (strain N315)
C1:Species: Staphylococcus aureus

R:Kuroda, M., Ohte, T., Uchiyama, I., Baba, T., Yuzawa, H., Kobayashi, I., Cui, L., Ogura, A., Mizutani-Hai, Y., Kobayashi, N., Sawano, T., Inoue, R., Kaito, C., Sekimizu, K., C., Shiba, T., Hattori, M., Ogasawara, N., Hayashi, H., Hiratazu, K. *Lancet* 357, 1225-1240, 2001

Staphylococcus aureus
Whole genome sequencing of methicillin resistant
Reference number: A89758; MUID:21311952; PMID:11418146
Accession: A89919

A;Gene: SA1250

Query Match	2.6%;	Score 8;	DB 2;	Length 204;
Best Local Similarity	100.0%;	Pred. No. 3.5;		
Matches	8;	Conservative	0;	Mismatches
			0;	Indels
			0;	Gaps
			0;	

QY	242	IAGTIGGV	245
Db	181	IAGTIGGV	188

RESULT	3
D83431	

type III export protein PscK PA1724 [imported] - *Pseudomonas aeruginosa* (strain PA01)
C:Species: *Pseudomonas aeruginosa*

R. Stover, C.K.; Pham, X.O.; Erwin, A.L.; Mizoguchi, S.D.; Warren, P.; Hickey, M.J.; Berman, S.; Yuan, Y.; Brody, L.L.; Coulter, S.N.; Folger, K.R.; Kas, A.; Lardig, K.; Lim, S.; Olson, M.V.

A:Title: Complete genome sequence of *Pseudomonas aeruginosa* PA01, an opportunistic pathogen
A:Reference number: AB2950; MUID:20437337
A:Accession: D83431

C;Genetics:
A;Gene: psck; PA1724

Query Match	2.6%;	Score 8;	DB 2;	Length 208;
Best Local Similarity	100.0%;	Pred. No. 3.6;		
Matches	8;	Conservative	0;	Mismatches
			0;	Indels
			0;	Gaps
			0;	

QY	4	SRRLRL	11
Db	160	SRRLRL	167

RESULT 4
T02409

Probable beta-glucosidase [imported] - Arabidopsis thaliana
C:Species: Arabidopsis thaliana (mouse-ear cress)
C:Date: 05-Mar-1999 #sequence_revision 05-Mar-1999 #text_change 16-Feb-2001
C:Accession: T02400; F84878

A:Accession: T02400
A:Status: translated from GB/EMBL/DBJ

ALCROSS references: EMBL:AF004321; NID:G3126106; PUDN:AA0051.1; PUD:G3126107
Experimental source: Cultivar Columbia
Rlin, X.; Kaul, S.; Rounsley, S.D.; Shea, T.P.; Benito, M.I.; Town, C.D.; Fujii, C.Y.

A:Title: Sequence and analysis of chromosome 2 of the plant *Arabidopsis thaliana*
A:Reference number: AB4420; MUID:20083487

A:map position: 7
 A:introns: 50/3; 74/1; 93/3; 119/1; 145/1; 174/2; 259/3; 370/1; 380/3; 415/1; 447/2
 C:Superfamily: Agrobacterium beta-glucosidase

Qy	250	LVLIVLA	257
Db	9	LVLIVLA	16

RESULT	5
E85276	

563270 hypothetical protein AT4g24020 [imported] - Arabidopsis thaliana
C;Species: Arabidopsis thaliana (mouse-ear cress)

C:Accession: E552/0
R:Anonymous, The European Union Arabidopsis Genome Sequencing Consortium, The Cold Spring Harbor Laboratory Press, 2000
Nature 402, 763-777, 1999
A:Title: Sequence and analysis of chromosome 4 of the plant *Arabidopsis thaliana*.

A:Accession: E85276
A:Status: preliminary
A:Molecule type: DNA

C:Superfamily: Arabidopsis thaliana hypothetical protein F23E12.170
A:Map position: 4
A:gene: Atg24420

Query Match	2.6%	Score 8	DB 2	Length 959
Similarity	100.0%	Pred. NO. 14		
Matches	8	Conservative	0	Indels 0
		Mismatches	0	Gaps 0

QY	30	EAVNLKSS	37
Db	300	EAVNLKSS	307

RESULT	6
G1YC	

GenCore version 4.5
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OM protein - protein search, using sw model

Run on: September 19, 2002, 17:39:47 : Search time 17.64 Seconds

(without alignments)
680.446 Million cell updates/sec

Title: US-09-524-531C-13

Perfect score: 310

Sequence: 1 MALSRRLRLRLVRLPHEFL.....VNYIRTSSEGGDFRHKSSFVI 310

Scoring table: OLIGO

Gapop 60.0 , Gapext 60.0

Searched: 105224 seqs, 38719550 residues

size : 0

Total number of hits satisfying chosen parameters: 105224

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 75 summaries

Database : SwissProt_40:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	8	2.6	146	1	Y142_AQUAE
2	7	2.3	118	1	ATPZ_SYNP6
3	7	2.3	137	1	EXSB_PSEAE
4	7	2.3	224	1	XLRI_MOUSE
5	7	2.3	232	1	YOZ1_YEAST
6	7	2.3	269	1	LCR_BACSU
7	7	2.3	280	1	CHR2_PSEAE
8	7	2.3	331	1	G3P2_YEAST
9	7	2.3	331	1	G3P3_YEAST
10	7	2.3	335	1	G3P1_TRIKO
11	7	2.3	359	1	PTWC_ECOLI
12	7	2.3	374	1	RL4_TRYBB
13	7	2.3	422	1	CSD_BORBU
14	7	2.3	452	1	SELA_AQUAE
15	7	2.3	473	1	YS81_CAEEL
16	7	2.3	491	1	CPB4_RABIT
17	7	2.3	491	1	CPB5_RABIT
18	7	2.3	501	1	CGAH_DROME
19	7	2.3	502	1	CGAN_DROME
20	7	2.3	505	1	NDHF_BACSU
21	7	2.3	586	1	HOL1_YEAST
22	7	2.3	697	1	CEAD_ECOLI
23	7	2.3	758	1	SC18_YEAST
24	7	2.3	774	1	VP4_ROTHT
25	7	2.3	775	1	VP4_ROTHT
26	7	2.3	776	1	VP4_ROTHT
27	7	2.3	840	1	CC16_YEAST
28	7	2.3	1015	1	VA17_HUMAN
29	7	2.3	1105	1	YEGE_ECOLI
30	7	2.3	1234	1	YXK5_CAEEL
31	7	2.3	2871	1	FBN1_BOVIN
32	7	2.3	2871	1	FBN1_HUMAN
33	7	2.3	2871	1	FBN1_MOUSE

34	7	2.3	2871	1	FBN1_PIG	09lv36 sus scrofa
35	6	1.9	39	1	PSB1_ODOSI	P49512 odontella s
36	6	1.9	56	1	SCP2_MESMA	09nj67 mesobutius
37	6	1.9	56	1	SCP3_MESMA	09ubd1 mesobutius
38	6	1.9	64	1	YDT6_SCHPO	014211 schizosacch
39	6	1.9	74	1	SRP_SOYAN	007502 glycine max
40	6	1.9	86	1	PRHP_STRAU	P45596 streptococc
41	6	1.9	87	1	PRHP_BACID	09k8d2 bacillus ha
42	6	1.9	87	1	PRHP_STRBO	09vwx8 streptococc
43	6	1.9	87	1	PRHP_STRSL	P24366 streptococc
44	6	1.9	87	1	Y14B_BPT4	P32280 bacteriopho
45	6	1.9	89	1	IAPF_FELCA	P12967 felis silve
46	6	1.9	94	1	YE23_HAEIN	P44194 haemophilus
47	6	1.9	102	1	KCRB_PIG	029594 sus scrofa
48	6	1.9	105	1	SP12_CAEEL	044953 caenorhabd1
49	6	1.9	113	1	RLJ1_SCHRO	09vrx8 schizosacch
50	6	1.9	118	1	YKD7_YEAST	P32858 saccharomyc
51	6	1.9	120	1	GALP_PIG	09t193 sus scrofa
52	6	1.9	126	1	PFDB_SULSO	09uxb8 sulfolobus
53	6	1.9	126	1	SECE_VIBAL	09vne7 vibrio algi
54	6	1.9	126	1	SECE_VIBCH	09kv36 vibrio chol
55	6	1.9	127	1	Y080_MERTJ	060386 methanococc
56	6	1.9	130	1	KV5G_MOUSE	P01633 mus musculu
57	6	1.9	130	1	Y060_BPT4	P39222 bacteriopho
58	6	1.9	130	1	YFFQ_ECOLI	P76548 escherichia
59	6	1.9	132	1	AMP1_ALICE	041258 allium cepa
60	6	1.9	134	1	YFID_BACSU	09v420 bacillus su
61	6	1.9	137	1	V541_ARCVU	029709 archaeoglob
62	6	1.9	138	1	NIKR_ARCVU	028515 archaeoglob
63	6	1.9	143	1	CU17_BOMMO	002387 bombyx mori
64	6	1.9	146	1	RL13_MYCCE	P47651 mycoplasma
65	6	1.9	148	1	PRD2_ARATH	091198 arabidopsis
66	6	1.9	152	1	NIRO_PSEST	052522 pseudomonas
67	6	1.9	155	1	Y060_BORBU	051087 borrelia bu
68	6	1.9	157	1	MENG_MYCLE	09cd42 mycobacteri
69	6	1.9	160	1	PETD_CHLEU	P11093 chlamydomon
70	6	1.9	160	1	PETD_GUTTH	078415 guillardia
71	6	1.9	160	1	TATB_HELPJ	09vms8 helicobacte
72	6	1.9	161	1	ISPF_BUCAT	P57494 buchnera ap
73	6	1.9	164	1	RL21_ARATH	043329 arabidopsis
74	6	1.9	167	1	TLVH_MYCAV	054499 mycobacteri
75	6	1.9	167	1	OB_CANFA	002720 canis fam11

ALIGNMENTS

RESULT 1	Y142_AQUAE	STANDARD:	PRT: 146 AA.
ID	Y142_AQUAE		
AC	066537:		
DT	16-OCT-2001 (Rel. 40, Created)		
DT	16-OCT-2001 (Rel. 40, Last sequence update)		
DE	16-OCT-2001 (Rel. 40, Last annotation update)		
DE	Hypothetical protein AO_142.		
OS	AQ_142.		
OC	Aquifex aeolicus.		
OC	Bacteria; Aquificales; Aquificaceae; Aquifex.		
OX	NCBI_TaxID=63363;		
RP	SEQUENCE FROM N.A.		
RP	[1]		
RC	STRAIN=VF5;		
RC	MEDLINE=98196666; PubMed=9337320;		
RA	Decker G., Warren P.V., Gaasterland T., Young W.G., Lenox A.L.,		
RA	Graham D.E., Overbeek R., Sneed M.A., Keller M., Aubay M., Huber R.,		
RA	Feldman R.A., Short J.M., Olsson G.J., Swanson R.V.;		
RT	"The complete genome of the hyperthermophilic bacterium Aquifex		
RT	aeolicus";		
RL	Nature 397:353-358(1998).		

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 CC modified and this statement is not removed. Usage by and for commercial
 CC entities requires a license agreement (See <http://www.isb-sib.ch/announce/>
 CC or send an email to license@isb-sib.ch).
 CC -----
 DR EMBL: AE000675; AAC06501.1; -
 KW Hypothetical protein; Complete proteome.
 SQ SEQUENCE 146 AA; 16321 MW; 9E98228A820C2B2 CRC64;

Query Match 2.6%; Score 8; DB 1; Length 146;
 Best Local Similarity 100.0%; Pred. No. 1.3;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 252 VLIYLAIV 259
 |||||
 Db 5 VLIYLAIV 12

LT 2
 ID _SYNP6 STANDARD; PRT; 118 AA.
 AC P08443;
 DT 01-AUG-1988 (Rel. 08, Created)
 DT 01-AUG-1988 (Rel. 08, Last sequence update)
 DT 16-OCT-2001 (Rel. 40, Last annotation update)
 DE ATP synthase protein I.
 GN ATP1.
 OS *Synechococcus* sp. (strain PCC 6301) (Anacystis nidulans).
 CC Bacteria; Cyanobacteria; Chroococcales; *Synechococcus*.
 OX NCBI_TaxID=1139;
 RN [1]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=87311713; Pubmed=3041005;
 RA Cozens A.L., Walker J.E.;
 RT "The organization and sequence of the genes for ATP synthase subunits
 RT in the cyanobacterium *Synechococcus* 6301. Support for an
 RT endosymbiotic origin of chloroplasts.";
 RL J. Mol. Biol. 194:359-383(1987).
 CC - FUNCTION: A POSSIBLE FUNCTION FOR THIS PROTEIN IS TO GUIDE THE
 CC ASSEMBLY OF THE MEMBRANE SECTOR OF THE ATPASE ENZYME COMPLEX.
 CC - SIMILARITY: TO THE CORRESPONDING SUBUNIT IN OTHER BACTERIA.
 CC -----
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 CC -----
 CC
 DR EMBL: X05302; CAA28922.1; -
 DR PIR: S10825; GIYC.
 KW Hydrogen ion transport; CF(0); Transmembrane.
 FT TRANSMEM 11 31 POTENTIAL.
 FT TRANSMEM 73 93 POTENTIAL.
 FT TRANSMEM 94 114 POTENTIAL.
 SQ SEQUENCE 118 AA; 13455 MW; 16B76A47F76C196 CRC64;

Query Match 2.3%; Score 7; DB 1; Length 118;
 Best Local Similarity 100.0%; Pred. No. 11;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 251 VLIYLA 257
 |||||
 Db 75 VLIYLA 81

RESULT 3
 EXSB_PSEAE STANDARD; PRT; 137 AA.
 ID EXSB_PSEAE
 AC P26994;

DT 01-AUG-1992 (Rel. 23, Created)
 DT 16-OCT-2001 (Rel. 40, Last sequence update)
 DT 16-OCT-2001 (Rel. 40, Last annotation update)
 DE Exoenzyme S synthesis protein B.
 GN EXSB OR PA1712.
 OS *Pseudomonas aeruginosa*.
 CC Bacteria; Proteobacteria; gamma subdivision; *Pseudomonadaceae*;
 CC *Pseudomonas*.
 OX NCBI_TaxID=287;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN=ATCC 15692 / PA01;
 RX MEDLINE=92011420; Pubmed=1655713;
 RA Frank D.W., Iglewski B.H.;
 RT "Cloning and sequence analysis of a trans-regulatory locus required
 RT for exoenzyme S synthesis in *Pseudomonas aeruginosa*.";
 RL J. Bacteriol. 173:6460-6468(1991).
 RN [2]
 RP SEQUENCE FROM N.A.
 RC STRAIN=ATCC 15692 / PA01;
 RX MEDLINE=20437337; Pubmed=10984043;
 RA Stover C.K., Pham X.-O.T., Erwin A.L., Mizoguchi S.D., Warren P.,
 RA Hickey M.J., Brinkman F.S.L., Hufnagle W.O., Kowalik D.J., Lagrou M.,
 RA Garber R.L., Goltry L., Tolentino E., Westbrook-Wadman S., Yuan Y.,
 RA Brody L.V., Coulter S.N., Folger K.R., Kas A., Larbig K., Lim R.M.,
 RA Smith K.A., Spencer D.H., Wong G.K.-S., Wu Z., Paulsen I.T.,
 RA Reizer J., Sailer M.H., Hancock R.E.W., Lory S., Olson M.V.;
 RT "Complete genome sequence of *Pseudomonas aeruginosa* PA01, an
 RT opportunistic pathogen.";
 RL Nature 406:959-964(2000).
 CC - SIMILARITY: TO Y. ENTEROCOLITICA VIRB.

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 CC entities requires a license agreement (See <http://www.isb-sib.ch/announce/>
 CC or send an email to license@isb-sib.ch).
 CC -----
 CC
 DR EMBL: M64975; AAA25815.1; -
 DR EMBL: AE004597; AAG05101.1; -
 DR PIR: B41047; BA1047.
 KW Complete proteome.
 FT CONFLICT 62 R -> W (IN REF. 1).
 SQ SEQUENCE 137 AA; 14996 MW; F7367E7AB301C4EA CRC64;

Query Match 2.3%; Score 7; DB 1; Length 137;
 Best Local Similarity 100.0%; Pred. No. 13;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 7 LRLRLYA 13
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 Db 41 LRLRLYA 47

RESULT 4
 XLRL_MOUSE STANDARD; PRT; 224 AA.
 ID XLRL_MOUSE
 AC 092114;
 DT 30-MAY-2000 (Rel. 39, Created)
 DT 30-MAY-2000 (Rel. 39, Last sequence update)
 DT 16-OCT-2001 (Rel. 40, Last annotation update)
 DE X-linked juvenile retinoschisis protein precursor.
 GN RSL1 OR RSLH OR XLRL1.
 OS *Mus musculus* (Mouse).
 CC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 CC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 OX NCBI_TaxID=10090;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN=129/SVJ;

GenCore version 4.5
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OM protein - protein search, using sw model

Run on: September 19, 2002, 17:38:12 ; Search time 48.09 Seconds

(without alignments)
1115.168 Million cell updates/sec

Title: US-09-524-531C-13

Perfect score: 310
Sequence: 1 MALSRRLRLVRLPHEFL.....VNYIRISEGDFRHSSEFVI 310

Scoring table:

Gapop 60.0 , Gapext 60.0

Searched: 562222 seqs, 172994929 residues

size : 0

Total number of hits satisfying chosen parameters: 562222

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Listing first 75 summaries

Database :

SPTREMBL_19:*
1: sp_archaea:*
2: sp_bacteria:*
3: sp_fungi:*
4: sp_human:*
5: sp_invertebrate:*
6: sp_mammal:*
7: sp_mmc:*
8: sp_organelle:*
9: sp_phage:*
10: sp_plant:*
11: sp_protist:*
12: sp_virus:*
13: sp_vertebrate:*
14: sp_unclassified:*
15: sp_rvirus:*
16: sp_bacteriap:*
17: sp_archaeap:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	253	81.6	310	11	Q9EPK4 mus musculu
2	245	79.0	310	11	Q9D1M9 mus musculu
3	152	49.0	310	11	Q9DBB7 mus musculu
4	24	7.7	309	4	Q96FL1 homo sapien
5	24	7.7	310	4	Q9BX67 homo sapien
6	8	2.6	204	16	Q99U70 straphylococ
7	8	2.6	206	2	P95439 pseudomonas
8	8	2.6	208	16	Q91313 pseudomonas
9	8	2.6	246	5	Q9XY46 ctenocephal
10	8	2.6	400	10	Q91T44 arabidopsis
11	8	2.6	506	10	Q64879 arabidopsis
12	8	2.6	959	10	Q22987 arabidopsis
13	7	2.3	85	12	Q99CX8 heliocoverp
14	7	2.3	95	10	Q9FE08 perilla fru
15	7	2.3	121	2	Q93H04 streptococ
16	7	2.3	125	11	Q9CS62 mus musculu

17	7	2.3	128	16	Q913D7	Q913d7 pseudomonas
18	7	2.3	147	5	Q9VZG1	Q9vzg1 drosophila
19	7	2.3	173	17	Q972K3	Q972k3 sulfolobus
20	7	2.3	177	16	Q931Y0	Q931y0 staphylococ
21	7	2.3	194	5	Q22478	Q22478 caenorhabdi
22	7	2.3	208	10	Q80501	Q80501 arabidopsis
23	7	2.3	208	10	Q40525	Q40525 nicotiana t
24	7	2.3	214	2	Q32618	Q32618 helicobacte
25	7	2.3	220	11	Q9E0G0	Q9e0g0 mus musculu
26	7	2.3	224	11	Q9RLM6	Q9rlm6 mus musculu
27	7	2.3	224	16	Q9ZLK3	Q9zlk3 helicobacte
28	7	2.3	232	3	Q99210	Q99210 saccharomyc
29	7	2.3	242	17	Q96XA1	Q96xa1 sulfolobus
30	7	2.3	247	4	Q75192	Q75192 homo sapien
31	7	2.3	249	17	Q9HRJ5	Q9hrj5 halobacteri
32	7	2.3	255	17	Q9Y950	Q9y950 aeropyrum p
33	7	2.3	255	17	Q970E4	Q970e4 sulfolobus
34	7	2.3	267	16	Q9KFN7	Q9kfn7 bacillus ha
35	7	2.3	269	2	Q9REJ2	Q9rej2 bacillus su
36	7	2.3	273	11	Q61002	Q61002 mus musculu
37	7	2.3	274	11	Q9JMR6	Q9jmr6 mus musculu
38	7	2.3	280	9	Q9XJ89	Q9xj89 bacterioph
39	7	2.3	280	16	Q91EV7	Q91ev7 pseudomonas
40	7	2.3	281	2	Q9ZIC9	Q9zic9 listeria mo
41	7	2.3	284	3	Q9URR9	Q9urr9 penicillium
42	7	2.3	287	17	Q9V1J3	Q9v1j3 pyrococcus
43	7	2.3	291	10	Q9AXA3	Q9axa3 oryza sativ
44	7	2.3	314	16	Q9KGT1	Q9kgt1 rhizobium m
45	7	2.3	322	17	Q27145	Q27145 methanobact
46	7	2.3	324	5	Q9XXP7	Q9xxp7 caenorhabdi
47	7	2.3	324	17	Q970S2	Q970s2 sulfolobus
48	7	2.3	332	17	Q9Y8W1	Q9y8w1 aeropyrum p
49	7	2.3	336	10	Q9FV74	Q9fv74 perilla fru
50	7	2.3	337	7	Q62934	Q62934 rattus norv
51	7	2.3	339	2	Q93RW7	Q93rw7 streptomyc
52	7	2.3	345	17	Q97BQ0	Q97bq0 thermoplasm
53	7	2.3	348	16	Q9K5Y6	Q9k5y6 bacillus ha
54	7	2.3	354	4	Q9PIW8	Q9piw8 homo sapien
55	7	2.3	354	4	Q9NOK8	Q9nok8 homo sapien
56	7	2.3	375	5	Q9V6R1	Q9v6r1 drosophila
57	7	2.3	375	10	Q94GY6	Q94gy6 oryza sativ
58	7	2.3	376	2	Q85136	Q85136 rhodobacter
59	7	2.3	376	13	Q98TS4	Q98ts4 xenopus lae
60	7	2.3	380	17	Q9V1J0	Q9v1j0 pyrococcus
61	7	2.3	387	16	Q98R37	Q98r37 mycoplasma
62	7	2.3	402	16	Q91IN1	Q91in1 pseudomonas
63	7	2.3	405	2	Q9KZ10	Q9kz10 streptomyc
64	7	2.3	405	13	Q90Y35	Q90y35 gallus gall
65	7	2.3	411	16	Q92QV5	Q92qv5 rhizobium m
66	7	2.3	421	10	Q9SJE4	Q9sje4 arabidopsis
67	7	2.3	430	2	Q9AF18	Q9af18 agrobacteri
68	7	2.3	445	16	P74224	P74224 synechocyst
69	7	2.3	484	16	Q98E19	Q98e19 rhizobium 1
70	7	2.3	491	6	Q29532	Q29532 oryctolagus
71	7	2.3	497	2	Q93CX5	Q93cx5 lactobacilli
72	7	2.3	500	5	Q9NS96	Q9ns96 caenorhabdi
73	7	2.3	512	17	Q26458	Q26458 methanococ
74	7	2.3	530	5	Q9V639	Q9v639 drosophila
75	7	2.3	532	5	Q9VP02	Q9vp02 drosophila

ALIGNMENTS

RESULT	1
Q9EPK4	Q9EPK4
AC	Q9EPK4; PRELIMINARY; PRT; 310 AA.
DT	01-MAR-2001 (TREMBLrel. 16, Created)
DT	01-MAR-2001 (TREMBLrel. 16, Last sequence update)
DT	01-DEC-2001 (TREMBLrel. 19, Last annotation update)
DE	JUNCTIONAL ADHESION MOLECULE-2, JAM-2 (1110002N23RIK PROTEIN).
GN	JCAM2 OR JAM-2 OR 1110002N23RIK.

```

OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RX PubMed=11036763;
RA Arrand-Lions M.A., Duncan L., Du Pasquier L., Imhof B.A.;
RT "Cloning of JAW-2 and JAW-3: an Emerging Junctional Adhesion Molecular
  Family?";
RL Curr. Top. Microbiol. Immunol. 251:91-98(2000).
RN [2]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J; TISSUE=EMBRYO;
RX MEDLINE=21085660; PubMed=11217851;
RA Kawai J., Shingawa A., Shibata K., Yoshino M., Itoh M., Ishii Y.,
RA Arakawa T., Hara A., Fukunishi Y., Konno H., Adachi J., Fukuda S.,
RA Atzawa K., Izawa M., Nishi K., Kiyosawa H., Kondo S., Yamanaoka I.,
RA Saito T., Okazaki Y., Gojobori T., Bono H., Kasukawa T., Saito R.,
RA Kadota K., Matsuda H.A., Ashburner M., Batalov S., Casavant T.,
RA Fleischmann W., Gaasterland T., Gissi C., King B., Kochiwa H.,
RA Kuehl P., Lewis S., Matsuo Y., Nikaido I., Pesole G., Quackenbush J.,
RA Schirml L.M., Staubli F., Suzuki R., Tomita M., Wagner L., Washio T.,
RA Sakai K., Okido T., Furuno M., Aono H., Baldarelli R., Barsh G.,
RA Blake J., Boffelli D., Bojunga N., Carninci P., de Bonaldo M.F.,
RA Brownstein S., Hill D., Hofmann M., Hume D.A., Kamiya M., Lee N.H.,
RA Gustincich S., Hill D., Hofmann M., Hume D.A., Kamiya M., Lee N.H.,
RA Lyons P., Marchionni L., Mashima J., Mazzarelli J., Mombaerts P.,
RA Nordone P., Ring B., Ringwald M., Rodriguez I., Sakamoto N.,
RA Sasaki H., Sato K., Schoenbach C., Seya T., Shibata Y., Storch K.-F.,
RA Suzuki H., Toyo-oka K., Wang K.H., Weitz C., Whitaker C., Wilming L.,
RA Wyshaw-Boris A., Yoshida K., Hasegawa Y., Kawaji H., Kohsaki S.,
RA Hayashizaki Y.;
RT "Functional annotation of a full-length mouse cDNA collection.";
RL Nature 409:685-690(2001).
DR EMBL: AJ300304; CAC20704.1; -
DR MGD: MGI:1933820; Jcarn2.
DR InterPro: IPR003599; Ig.
DR InterPro: IPR003600; Ig_c2.
DR InterPro: IPR003600; Ig_1ike.
DR InterPro: IPR003600; Ig_1ike.
DR Pfam: PF00047; Ig_2.
DR SMART: SM00409; Ig_2.
DR SMART: SM00408; IgC2; 2.
DR SMART: SM00410; Ig_1ike; 1.
KW Immunoglobulin domain.
SQ
SEQUENCE 310 AA; 34837 MW; 4B92BCB51D0A4B0A CRC64;
Query Match 81.6%; Score 253; DB 11; Length 310;
Best Local Similarity 100.0%; Pred. No. 1.5e-252;
Matches 253; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 58 SQTSDPRLEMKKIDGGTYYVPDNKIOGDLAGRTDVGKTSLRIMWNTSDSAIYRCEV 117
DB 58 SQTSDPRLEMKKIDGGTYYVPDNKIOGDLAGRTDVGKTSLRIMWNTSDSAIYRCEV 117
QY 118 VALNDREVEDEITELIVQKVPVPCRIIPAAYVGKTAATLQCESEGYRPHYSWYRND 177
DB 118 VALNDREVEDEITELIVQKVPVPCRIIPAAYVGKTAATLQCESEGYRPHYSWYRND 177
QY 178 VPLPTDSRANRPNSSSFHNSSETGLVFNAVHKDDSGQYYCIASNDAGARCGDMEV 237
DB 178 VPLPTDSRANRPNSSSFHNSSETGLVFNAVHKDDSGQYYCIASNDAGARCGDMEV 237
QY 238 YDLNIAIGIGLVLLVLAIVITMGICAVRRGCFISSKODGESYKSPGKHGDNVYIRTS 297
DB 238 YDLNIAIGIGLVLLVLAIVITMGICAVRRGCFISSKODGESYKSPGKHGDNVYIRTS 297
QY 298 EGGDFRHKSSFYI 310
DB 298 EGGDFRHKSSFYI 310

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```

RESULT 2
ID 09DIM9 PRELIMINARY; PRT; 310 AA.
AC 09DIM9;
DT 01-JUN-2001 (TREMBLrel. 17, Created)
DT 01-JUN-2001 (TREMBLrel. 17, Last sequence update)
DT 01-DEC-2001 (TREMBLrel. 19, Last annotation update)
DE 1110002N23RIK PROTEIN.
GN JCAM2 OR 1110002N23RIK.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J; TISSUE=EMBRYO;
RX MEDLINE=21085660; PubMed=11217851;
RA Kawai J., Shingawa A., Shibata K., Yoshino M., Itoh M., Ishii Y.,
RA Arakawa T., Hara A., Fukunishi Y., Konno H., Adachi J., Fukuda S.,
RA Atzawa K., Izawa M., Nishi K., Kiyosawa H., Kondo S., Yamanaoka I.,
RA Saito T., Okazaki Y., Gojobori T., Bono H., Kasukawa T., Saito R.,
RA Kadota K., Matsuda H.A., Ashburner M., Batalov S., Casavant T.,
RA Fleischmann W., Gaasterland T., Gissi C., King B., Kochiwa H.,
RA Kuehl P., Lewis S., Matsuo Y., Nikaido I., Pesole G., Quackenbush J.,
RA Schirml L.M., Staubli F., Suzuki R., Tomita M., Wagner L., Washio T.,
RA Sakai K., Okido T., Furuno M., Aono H., Baldarelli R., Barsh G.,
RA Blake J., Boffelli D., Bojunga N., Carninci P., de Bonaldo M.F.,
RA Brownstein S., Hill D., Hofmann M., Hume D.A., Kamiya M., Lee N.H.,
RA Gustincich S., Hill D., Hofmann M., Hume D.A., Kamiya M., Lee N.H.,
RA Lyons P., Marchionni L., Mashima J., Mazzarelli J., Mombaerts P.,
RA Nordone P., Ring B., Ringwald M., Rodriguez I., Sakamoto N.,
RA Sasaki H., Sato K., Schoenbach C., Seya T., Shibata Y., Storch K.-F.,
RA Suzuki H., Toyo-oka K., Wang K.H., Weitz C., Whitaker C., Wilming L.,
RA Wyshaw-Boris A., Yoshida K., Hasegawa Y., Kawaji H., Kohsaki S.,
RA Hayashizaki Y.;
RT "Functional annotation of a full-length mouse cDNA collection.";
RL Nature 409:685-690(2001).
DR EMBL: AK003326; BAB22715.1; -
DR MGD: MGI:1933820; Jcarn2.
DR InterPro: IPR003599; Ig.
DR InterPro: IPR003599; Ig.
DR InterPro: IPR003600; Ig_c2.
DR InterPro: IPR003600; Ig_1ike.
DR InterPro: IPR003600; Ig_1ike.
DR Pfam: PF00047; Ig_2.
DR SMART: SM00409; Ig_2.
DR SMART: SM00408; IgC2; 2.
DR SMART: SM00410; Ig_1ike; 1.
KW Immunoglobulin domain.
SQ
SEQUENCE 310 AA; 34819 MW; 6692BCAD68EA4B1D CRC64;
Query Match 79.0%; Score 245; DB 11; Length 310;
Best Local Similarity 100.0%; Pred. No. 2.8e-244;
Matches 245; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 58 SQTSDPRLEMKKIDGGTYYVPDNKIOGDLAGRTDVGKTSLRIMWNTSDSAIYRCEV 117
DB 58 SQTSDPRLEMKKIDGGTYYVPDNKIOGDLAGRTDVGKTSLRIMWNTSDSAIYRCEV 117
QY 118 VALNDREVEDEITELIVQKVPVPCRIIPAAYVGKTAATLQCESEGYRPHYSWYRND 177
DB 118 VALNDREVEDEITELIVQKVPVPCRIIPAAYVGKTAATLQCESEGYRPHYSWYRND 177
QY 178 VPLPTDSRANRPNSSSFHNSSETGLVFNAVHKDDSGQYYCIASNDAGARCGDMEV 237
DB 178 VPLPTDSRANRPNSSSFHNSSETGLVFNAVHKDDSGQYYCIASNDAGARCGDMEV 237
QY 238 YDLNIAIGIGLVLLVLAIVITMGICAVRRGCFISSKODGESYKSPGKHGDNVYIRTS 297
DB 238 YDLNIAIGIGLVLLVLAIVITMGICAVRRGCFISSKODGESYKSPGKHGDNVYIRTS 297

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OY 298 EECDF 302
 Db 298 EECDF 302

RESULT 3
 ID 09DB87 PRELIMINARY: PRT: 310 AA.
 AC 09DB87:
 DT 01-JUN-2001 (Tremblrel. 17, Created)
 DT 01-JUN-2001 (Tremblrel. 17, Last sequence update)
 DE 01-DEC-2001 (Tremblrel. 19, Last annotation update)
 DE 1110002N23RIK PROTEIN.
 GN JCAM2 OR 1110002N23RIK.
 OS Mus musculus (Mouse).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 OC NCBI_TaxId=10090;
 RN [1]

SEQUENCE FROM N.A.
 STRAIN=C57BL/6J; TISSUE=SMALL INTESTINE;
 MEDLINE=21085660; PubMed=11217851;
 Kawai J., Shinagawa A., Shibata K., Yoshino M., Itoh M., Ishii Y.,
 Aizawa T., Hara A., Fukunishi Y., Kono H., Adachi J., Fukuda S.,
 Aizawa K., Izawa M., Nishi K., Kiyosawa H., Kondo S., Yamanaka I.,
 Saito T., Okazaki Y., Gojobori T., Bono H., Kasukawa T., Saito R.,
 Kadota K., Matsuda H.A., Ashburner M., Batalov S., Casavant T.,
 Fleischmann W., Gaasterland T., Gissi C., King B., Kochiya H.,
 Kuehl P., Lewis S., Matsuo T., Nikaido I., Pesole G., Quackenbush J.,
 Schirml L.M., Staubli F., Suzuki R., Tomita M., Wagner L., Washio T.,
 Sakai K., Okido T., Furuno M., Aono H., Baldarelli R., Barsh G.,
 Blake J., Boffelli D., Bojunga N., Carninci P., de Bonaldo M.F.,
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 Gustincich S., Hill D., Hofmann M., Hume D.A., Kamiya M., Lee N.H.,
 Lyons P., Marchionni L., Mashima J., Mazzarelli J., McManis P.,
 Norone P., Ring B., Ringwald M., Rodriguez I., Sakamoto N.,
 Sasaki H., Sato K., Schenbach C., Seya T., Shibata Y., Storch K.-F.,
 Suzuki H., Toyooka K., Wang K.H., Weitz C., Whitaker C., Wilming L.,
 Wyshaw-Boris A., Yoshida K., Hasegawa Y., Kawai H., Kohsaki S.,
 Hayashizaki Y.;
 RA "Functional annotation of a full-length mouse cDNA collection."
 RT Nature 409:685-690(2001).
 RC EMBL: AK008187; BAB2519.1; -;
 DR MGD: MGI:1933820; Jcam2.
 DR InterPro: IPR003598; I9.
 DR InterPro: IPR003598; I9.C2.
 DR InterPro: IPR003600; I9_Like.
 DR InterPro: IPR003006; I9_MHC.
 PLam: PF00047; I9; 2.
 SMART: SM00409; I9; 2.
 SMART: SM00408; IGC2; 2.
 SMART: SM00410; IG_Like; 1.
 DR Immunoglobulin domain.
 KW
 SQ SEQUENCE 310 AA; 34855 MW; C74884EABE234680 CRC64;

Query Match 49.0%; Score 152; DB 11; Length 310;
 Best Local Similarity 99.6%; Pred. No. 2.6e-148;
 Matches 252; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 58 SOTSDBRIEMKRIODGQTYVYFDNKTQDLAGRTDVGKTSIRINWVTRSDSAIRCEV 117
 Db 58 SOTSDBRIEMKRIODGQTYVYFDNKTQDLAGRTDVGKTSIRINWVTRSDSAIRCEV 117
 OY 118 VALNDKEVDEITIELIVYKPVTPVCRIPAAVPGKTAATLQCESEGYPRPHYSYRND 177
 Db 118 VALNDKEVDEITIELIVYKPVTPVCRIPAAVPGKTAATLQCESEGYPRPHYSYRND 177
 OY 178 VPLPTDSRANPRFONSSFFVNSSETGLVFNAVNAKHODSGGYTCIASNDACAAREGDMYV 237
 Db 178 VPLPTDSRANPRFONSSFFVNSSETGLVFNAVNAKHODSGGYTCIASNDACAAREGDMYV 237
 OY 238 YDLNAGIIGVLLVLAIVITMGICAVRRGCFISSKODESEYKSPCKHGDVNYIRTS 297

Db 238 YDLNAGIIGVLLVLAIVITMGICAVRRGCFISSKODESEYKSPCKHGDVNYIRTS 297
 OY 298 EECDFRRKSSFYI 310
 Db 298 EECDFRRKSSFYI 310

RESULT 4
 ID 096FL1 PRELIMINARY: PRT: 309 AA.
 AC 096FL1:
 DT 01-DEC-2001 (Tremblrel. 19, Created)
 DT 01-DEC-2001 (Tremblrel. 19, Last sequence update)
 DT 01-DEC-2001 (Tremblrel. 19, Last annotation update)
 DE UNKNOWN (PROTEIN FOR IMAGE:3875338) (FRAGMENT).
 OS Homo sapiens (Human).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.
 OC NCBI_TaxId=9606;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC TISSUE=EYE, AND RETINOBLASTOMA.
 RA Strausberg R.;
 RL Submitted (JUL-2001) to the EMBL/Genbank/DBJ databases.
 DR EMBL: BC010690; AAH10690.1; -;
 FT NON_TER 1 1
 SQ SEQUENCE 309 AA; 34917 MW; 50C5B1B78728BDF3 CRC64;

Query Match 7.7%; Score 24; DB 4; Length 309;
 Best Local Similarity 100.0%; Pred. No. 3.3e-16;
 Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 167 PRPHYSYRNDVPLPTDSRANPRF 190
 Db 166 PRPHYSYRNDVPLPTDSRANPRF 189

RESULT 5
 ID 09BX67 PRELIMINARY: PRT: 310 AA.
 AC 09BX67:
 DT 01-JUN-2001 (Tremblrel. 17, Created)
 DT 01-JUN-2001 (Tremblrel. 17, Last sequence update)
 DE 01-DEC-2001 (Tremblrel. 19, Last annotation update)
 DE JUNCTIONAL ADHESION MOLECULE 3 PRECURSOR (JUNCTIONAL ADHESION MOLECULE-2).
 GN JAM-2.
 OS Homo sapiens (Human).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.
 OC NCBI_TaxId=9606;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC TISSUE=BRIN;
 RA Cunningham S.A., Arrate M.P., Tran T.M.;
 RT "Cloning of Human Junctional Adhesion Molecule 3."
 RL Submitted (MAR-2001) to the EMBL/Genbank/DBJ databases.
 RN [2]
 RP SEQUENCE FROM N.A.
 RA Aurand-Lions M.A., Johnson-Leger C., Wong C., Dupasquier L.;
 RT "Heterogeneity of endothelial junctions is reflected by differential expression and specific subcellular localization of the three JAM family members."
 RL Submitted (AUG-2001) to the EMBL/Genbank/DBJ databases.
 RN [3]
 RP SEQUENCE FROM N.A.
 RA Aurand-Lions M.A., Johnson-Leger C., Lamagna C., Ozaki H., Kita T.;
 RT "Junctional adhesion molecules (JAMs) and Interendothelial junctions."
 RL Submitted (AUG-2001) to the EMBL/Genbank/DBJ databases.
 DR EMBL: AF356518; AAK27221.1; -;

DR EMBL: AJ344431; CAC69845.1; -
 DR InterPro: IPR003599; Ig.
 DR InterPro: IPR003598; Ig_c2.
 DR InterPro: IPR003600; Ig_like.
 DR InterPro: IPR003006; Ig_MHC.
 DR Pfam: PF00047; Ig_2.
 DR SMART: SM00409; Ig; 2.
 DR SMART: SM00408; IgC2; 2.
 DR SMART: SM00410; Ig_like; 1.
 KM Immunoglobulin domain; Signal.
 FT SIGNAL 1 30
 SQ SEQUENCE 310 AA; 35020 MW; CE39ADP3EALDAB9 CRC64;

Query Match 7.7%; Score 24; DB 4; Length 310;
 Best Local Similarity 100.0%; Pred. No. 3.3e-16;
 Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 167 PRPHYSWYRNDVPLPTDSRANPRF 190
 167 PRPHYSWYRNDVPLPTDSRANPRF 190

RESULT 6
 ID Q99U70 PRELIMINARY; PRT; 204 AA.
 AC Q99U70;
 DT 01-JUN-2001 (TREMBlrel. 17, Created)
 DT 01-JUN-2001 (TREMBlrel. 17, Last sequence update)
 DT 01-DEC-2001 (TREMBlrel. 19, Last annotation update)
 DE CONSERVED HYPOTHETICAL PROTEIN (HYPOTHETICAL PROTEIN SAV1417).
 GN SA1250 OR SAV1417.
 OS Staphylococcus aureus (strain N315), and
 OC Staphylococcus aureus (strain Mu50).
 CC Bacteria; Firmicutes; Bacillus/Clostridium group;
 CC Bacillus/Staphylococcus group; Staphylococcus.
 OX NCBI_TaxID=158879, 158878;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC SPECIES=S.aureus (strain N315), and S.aureus (strain Mu50);
 RX MEDLINE=21311952; PubMed=11418146;
 RA Kunoda M., Ohta T., Uchiyama I., Baba T., Yuzawa H., Kobayashi I.,
 RA Cui L., Oguchi A., Aoki K.-I., Nagai Y., Iian J.-O., Ito T.,
 RA Kanamori M., Matsumaru H., Maruyama A., Murakami H., Hosoyama A.,
 RA Mizutani-Ui Y., Takahashi N.K., Sawano T., Inoue R.-I., Kaito C.,
 RA Sekimizu K., Hirakawa H., Kuhara S., Goto S., Yabuzaki J.,
 RA Kanehisa M., Yamashita A., Oshima K., Furuya K., Yoshino C., Shiba T.,
 RA Hattori M., Ogasawara N., Hayashi H., Hirataku K.;
 "Whole genome sequencing of methicillin-resistant Staphylococcus aureus."
 RL Lancet 357:1225-1240(2001).
 DR EMBL: AP003133; BAB42510.1;
 DR EMBL: AP003362; BAB57579.1;
 DR InterPro: IPR003026; PA_PTPase.
 DR Pfam: PF01569; PAP2; 1.
 DR SMART: SM00014; acidPpc; 1.
 DR Complete proteome; Hypothetical protein.
 KW SEQUENCE 204 AA; 22685 MW; 009CF65DB1PDP2 CRC64;
 SQ SEQUENCE 204 AA; 22685 MW; 009CF65DB1PDP2 CRC64;

Query Match 2.6%; Score 8; DB 16; Length 204;
 Best Local Similarity 100.0%; Pred. No. 7.5;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 242 IAGIGGV 249
 181 IAGIGGV 188

RESULT 7
 P95439 PRELIMINARY; PRT; 206 AA.
 ID Q95439
 AC P95439;

DT 01-MAY-1997 (TREMBlrel. 03, Created)
 DT 01-MAY-1997 (TREMBlrel. 03, Last sequence update)
 DT 01-NOV-1998 (TREMBlrel. 08, Last annotation update)
 DE PSCK.
 GN PSCK.
 OS Pseudomonas aeruginosa.
 OC Bacteria; Proteobacteria; gamma subdivision; Pseudomonadaceae;
 CC Bacteroidia.
 OX NCBI_TaxID=287;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN=388;
 RX MEDLINE=97126825; PubMed=8971719;
 RA Yahr T.L., Goranson J., Frank D.W.;
 RT "Exoenzyme S of Pseudomonas aeruginosa is secreted by a type III
 RT pathway";
 RL Mol. Microbiol. 22:991-1003(1996).
 DR EMBL: U56077; AAC44782.1;
 SQ SEQUENCE 206 AA; 23971 MW; 8DDDE751E26BDFR8 CRC64;

Query Match 2.6%; Score 8; DB 2; Length 206;
 Best Local Similarity 100.0%; Pred. No. 7.6;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 SRRRLRL 11
 160 SRRRLRL 167

RESULT 8
 ID Q91313 PRELIMINARY; PRT; 208 AA.
 AC Q91313;
 DT 01-MAR-2001 (TREMBlrel. 16, Created)
 DT 01-MAR-2001 (TREMBlrel. 16, Last sequence update)
 DT 01-OCT-2001 (TREMBlrel. 18, Last annotation update)
 DE TYPE III EXPORT PROTEIN PSCK.
 GN PSCK OR PA1724.
 OS Pseudomonas aeruginosa.
 OC Bacteria; Proteobacteria; gamma subdivision; Pseudomonadaceae;
 CC Pseudomonas.
 OX NCBI_TaxID=287;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN=ATCC 15692 / PAOI;
 RX MEDLINE=20437337; PubMed=10984043;
 RA Stover C.K., Pham X.-Q.T., Erwin A.L., Mizoguchi S.D., Warren P.,
 RA Hickey M.J., Brinkman F.S.L., Hufnagle W.O., Kowalik D.J., Lagrou M.,
 RA Garber R.L., Goltry L., Tolentino E., Westbrook-Wadman S., Yuan Y.,
 RA Brody L.B., Coulter S.N., Folger K.R., Kas A., Larbig K., Lim R.M.,
 RA Smith K.A., Spencer D.H., Wong G.K.-S., Wu Z., Paulsen I.T.,
 RA Reizer J., Salier M.H., Hancock R.E.W., Lory S., Olson M.V.;
 "Complete genome sequence of Pseudomonas aeruginosa PAOI, an
 RT opportunistic pathogen."
 RL Nature 406:959-964(2000).
 DR EMBL: AE004598; AAC05113.1;
 KW Complete proteome.
 SQ SEQUENCE 208 AA; 23898 MW; 74F6B5848FE9E5BE CRC64;

Query Match 2.6%; Score 8; DB 16; Length 208;
 Best Local Similarity 100.0%; Pred. No. 7.6;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 SRRRLRL 11
 160 SRRRLRL 167

RESULT 9
 Q9XY46 PRELIMINARY; PRT; 246 AA.
 ID Q9XY46